NYLATRON GSM contains finely divided particles of molybdenum disulphide to enhance its bearing and wear behaviour without impairing the impact and fatigue resistance inherent to unmodified cast nylon grades. It is a very commonly used grade for gears, bearings, sprockets and sheaves.

Leaend:

++

(1)

(2)

(3)

(4)

(5)

(7)

(8)

(9)

(10)

(11)

(12) (13)

(14)

(15)

: values referring to dry material

: values referring to material in equilibrium with the standard atmosphere 23°C/50% RH (mostly derived from literature)

According to method 1 of ISO 62 and done on discs  $\varnothing$  50 x 3

The figures given for these properties are for the most part

Values for this property are only given here for amorphous

Only for short time exposure (a few hours) in applications where

After these periods of time, there is a decrease in tensile strength – measured at 23°C – of about 50% as compared with the original value. The temperature values given here are thus based on the thermal-oxidative degradation which takes place and causes a reduction in properties. Note, however, that the maximum allowable service temperature depends in many cases essentially on the duration and the magnitude of the mechanical

Impact strength decreasing with decreasing temperature, the minimum allowable service temperature is practically mainly determined by the extent to which the material is subjected to impact. The value given here is based on unfavourable impact conditions and may consequently not be considered as being the

These estimated ratings, derived from raw material supplier data and other publications, are not intended to reflect hazards presented by the material under actual fire conditions. There is no 'UL File Number' available for the NYLATRON GSM stock

The figures given for the properties of dry material (+) are for the

most part average values of tests run on test specimens machined out of rods Ø 50 mm. Except for the hardness tests, the test specimens were then taken from an area mid between centre and outside diameter, with their length in longitudinal

Test speed: 50 mm/min [chosen acc. to ISO 10350-1 as a

function of the ductile behaviour of the material (tough or brittle)].

Measured on 10 mm thick test specimens (discs), mid between

Electrode configuration: Ø 25 / Ø 75 mm coaxial cylinders ; in

transformer oil according to IEC 60296 ; 1 mm thick test

This table, mainly to be used for comparison purposes, is a

valuable help in the choice of a material. The data listed here fall within the normal range of product properties. However, they are not guaranteed and they should not be used to establish material specification limits nor used alone as the basis of

derived from raw material supplier data and other publications.

materials and not for semi-crystalline ones.

stresses to which the material is subjected.

absolute practical limit.

direction of the rod.

Test specimens: Type 1 B

Test specimens: cylinders Ø 12 x 30 mm

Test speed: 1 mm/min

Pendulum used: 15 J

specimens.

desian.

center and outside diameter

shapes.

no or only a very low load is applied to the material. Temperature resistance over a period of 5.000/20.000 hours.

## Physical properties (indicative values \*

PROPERTIES         Units         VALUES           Colour         -         -         -         grey-black           Density         ISO 183-11         gicm <sup>1</sup> 1.16           Water absorption:         -         -         %         2.298           - at saturation in air of 23°C (10% RH         -         %         2.4           - at saturation water of 23°C         -         %         2.4           - at saturation water of 23°C         -         %         2.4           - at saturation water of 23°C         -         Wilking temperature (DSC, 10°C/min) - (3)         ISO 11357.11/2         °C         -           Cellicit of Timeral conductivity at 23°C         -         Wilking temperature IDSC, 10°C/min) - (3)         ISO 11357.11/2         °C         -           - average value between 23 and 60°C         -         m(m, K)         80 x 10 <sup>6</sup> -           - average value between 23 and 10°C         -         m(m, K)         80 x 10 <sup>6</sup> -           - average value between 23 and 10°C         -         m(m, K)         80 x 10 <sup>6</sup> -           - average value between 23 and 10°C         -         m(m, K)         80 x 10 <sup>6</sup> -           - averontinuousky: for 5.000 / 20.000 h (5)         -	Physical properties (indicative values	)			
Density         ISO 1183-1         glom*         1.16           Water absorption:         - after 2496 himmersion in water of 23°C (1)         ISO 62         mg         5/2/8           - at saturation in air of 23°C (250% RH         - 0         %         2.4           - at saturation in water of 23°C         - %         6.7           Thermal Properties (2)         - 0         %         6.7           Melting temperature (DSC, 10°C/min) - (3)         ISO 11357-11/2         °C         2.15           Glass transition temperature (DSC, 20°C/min) - (3)         ISO 11357-11/2         °C         2.16           Class transition temperature DSC, 0°C / Chim) - (3)         ISO 11357-11/2         °C         2.00           - average value between 23 and 60°C         -         m(m.K)         80 x 10 <sup>6</sup> - average value between 23 and 60°C         -         m(m.K)         90 x 10 <sup>6</sup> - average value between 23 and 60°C         -         °C         100°C           - average value between 23 and 60°C         -         °C         100°C           - average value between 23 and 60°C         -         °C         100°C           - average value between 23 and 60°C         -         °C         100°C           - aveorage value between 23 and 60°C         - <th>PROPERTIES</th> <th></th> <th>Test methods</th> <th>Units</th> <th>VALUES</th>	PROPERTIES		Test methods	Units	VALUES
Water absorption:         - after 24/96 h immersion in water of 23°C (1)         ISO 62         mg         52/98           - at saturation in air of 23°C / 50% RH         -         %         2.4           - at saturation water of 23°C         -         %         2.4           - at saturation water of 23°C         -         %         6.7           Thermal Properties (2)         -         %         6.7           Milling temperature (DSC, 10°C/min) - (3)         ISO 11357-11/2         *C         -           - average value between 23 and 60°C         -         W(K,m)         0.30           - average value between 23 and 10°C         -         m(m,K)         80 x 10 <sup>6</sup> - average value between 23 and 10°C         -         m(m,K)         80 x 10 <sup>6</sup> - average value between 23 and 10°C         -         m(m,K)         80 x 10 <sup>6</sup> - average value between 23 and 10°C         -         m(m,K)         80 x 10 <sup>6</sup> - average value between 23 and 10°C         -         m(m,K)         80 x 10 <sup>6</sup> - average value between 23 and 10°C         -         m(m,K)         90 x 10 <sup>6</sup> - average value between 23 and 10°C         -         m(m,K)         90 x 10 <sup>6</sup> - continuous 10° ro 5.00° t20.000 h (5)	Colour		-	-	grey-black
Water absorption:         - after 24/96 h immersion in water of 23°C (1)         ISO 62         mg         52/98           - at saturation in air of 23°C / 50% RH         -         %         2.4           - at saturation water of 23°C         -         %         2.4           - at saturation water of 23°C         -         %         6.7           Thermal Properties (2)         -         %         6.7           Milling temperature (DSC, 10°C/min) - (3)         ISO 11357-11/2         *C         -           - average value between 23 and 60°C         -         W(K,m)         0.30           - average value between 23 and 10°C         -         m(m,K)         80 x 10 <sup>6</sup> - average value between 23 and 10°C         -         m(m,K)         80 x 10 <sup>6</sup> - average value between 23 and 10°C         -         m(m,K)         80 x 10 <sup>6</sup> - average value between 23 and 10°C         -         m(m,K)         80 x 10 <sup>6</sup> - average value between 23 and 10°C         -         m(m,K)         80 x 10 <sup>6</sup> - average value between 23 and 10°C         -         m(m,K)         90 x 10 <sup>6</sup> - average value between 23 and 10°C         -         m(m,K)         90 x 10 <sup>6</sup> - continuous 10° ro 5.00° t20.000 h (5)					
- after 24/96 h immersion in water of 23°C (1)         ISO 62         mg         5298           - at saturation in air of 23°C (50% RH         -         %         6.7           Thermal Program         -         %         6.7           Thermal Program         ISO 11357-11-2         °C         2.15           Glass transition temperature (DSC, 20°C/min)         ISO 11357-11-2         °C         -           Thermal Programmed expansion:         -         will and 0°C         -         Will(M)         0.30           Coefficient of linear thermal expansion:         -         -         m(m,K)         90 x 10 <sup>6</sup> - average value between 23 and 00°C         -         m(m,K)         90 x 10 <sup>6</sup> -           - endord A: 1.8 MPa         +         ISO 75-11-2         °C         80           - for short programs/are (6)         -         °C         170         -           - endord A: 1.8 MPa         +         ISO 4539-11-2         %         25           - endord A: 1.8 MPa         -         -         °C         170           - conding to US 4(3)         -         -         HB /HB         Mexa allowable service temperature (6)         -         °C         30           Filammability (7):         -<			ISO 1183-1	g/cm <sup>3</sup>	1.16
$ \begin{array}{cccc} & & & & & & & & & & & & & & & & & $					
- at saturation in water of 23°C / 50% RH - at saturation in water of 23°C / 50% RH - at saturation in water of 23°C - Thermal Properties (2) Metting temperature (DSC, 0°C/min) (ISO 11357-11-3 °C 215 (Cast strainstin temperature (DSC, 0°C/min) - (3) ISO 11357-11-3 °C - - WI(K.m) 0.30 Coefficient of linear thermal expansion: - average value between 23 and 60°C - average value between 23 and 60°C - average value between 23 and 100°C - mf(m K) 80 x 10 <sup>4</sup> - average value between 23 and 100°C - mf(m K) 80 x 10 <sup>4</sup> - average value between 23 and 100°C - mf(m K) 80 x 10 <sup>4</sup> - average value between 23 and 100°C - mf(m K) 80 x 10 <sup>4</sup> - average value between 23 and 100°C - mf(m K) 80 x 10 <sup>4</sup> - average value between 23 and 100°C - mf(m K) 80 x 10 <sup>4</sup> - average value between 23 and 100°C - mf(m K) 80 x 10 <sup>4</sup> - average value between 23 and 100°C - mf(m K) 80 x 10 <sup>4</sup> - average value between 23 and 100°C - mf(m K) 80 x 10 <sup>4</sup> - average value between 23 and 100°C - mf(m K) 80 x 10 <sup>4</sup> - average value between 23 and 100°C - mf(m K) 80 x 10 <sup>4</sup> - average value between 23 and 100°C - mf(m K) 80 x 10 <sup>4</sup> - average value between 23 and 100°C - mf(m K) 80 x 10 <sup>4</sup> - average value between 23 and 100°C - mf(m K) 80 x 10 <sup>4</sup> - average value between 23 and 100°C - mf(m K) 80 x 10 <sup>4</sup> - average value between 23 and 100°C - mf(m K) 80 x 10 <sup>4</sup> - average value between 23 and 100°C - mf(m K) 80 x 10 <sup>4</sup> - average value between 23 and 100°C - mf(m K) 80 x 10 <sup>4</sup> - average value between 23 and 100°C - mf(m K) 80 x 10 <sup>4</sup> - average value between 23 and 100°C - mf(m K) 80 x 10 <sup>4</sup> - at 1 MHz + IEC 60023 - motion since 10 <sup>4</sup> + IEC 600250 - motion since 10 <sup>4</sup> + IEC 600250 - motion since 10 <sup>4</sup> + IEC 600250 - min min 100 <sup>4</sup> - at 1 MHz + IEC 600250 - min min 10 <sup>4</sup> + IEC 600250 - min min	<ul> <li>after 24/96 h immersion in water of 23°C (1)</li> </ul>			•	
- at suration in water of 23°C - % 6.7 Thermal Properties (2) Miling temperature (DSC, 10°Cmin) ISO 11357-1/-3 °C 215 Glass transition temperature (DSC, 20°Cmin) - (3) ISO 11357-1/-2 °C - - WV(K.m) 0.30 Coefficient of linear thermal expansion: - average value between 23 and 60°C - - average value between 23 and 100°C - - mv(m, K) 80 x 10° <sup>4</sup> - average value between 23 and 100°C - - mv(m, K) 80 x 10° <sup>4</sup> - average value between 23 and 100°C - - mv(m, K) 80 x 10° <sup>4</sup> - average value between 23 and 100°C - - mv(m, K) 80 x 10° <sup>4</sup> - average value between 23 and 100°C - - mv(m, K) 80 x 10° <sup>4</sup> - average value between 23 and 100°C - - mv(m, K) 80 x 10° <sup>4</sup> - continuously: rof 5,000 / 2000 h (5) - - °C 170 - continuously: rof 5,000 / 2000 h (5) - - °C 170 - continuously: rof 5,000 / 2000 h (5) - - °C 170 - continuously: rof 5,000 / 2000 h (5) - - °C 170 - continuously: rof 5,000 / 2000 h (5) - - °C 170 - continuously: rof 5,000 / 2000 h (5) - - °C 170 - continuously: rof 5,000 / 2000 h (5) - - °C 170 - continuously: rof 5,000 / 2000 h (5) - - °C 170 - continuously: rof 5,000 / 2000 h (5) - - °C 170 - continuously: rof 5,000 / 2000 h (5) - - °C 170 - continuously: rof 5,000 / 2000 h (5) - - °C 170 - continuously: rof 5,000 / 2000 h (5) - - °C 170 - continuously: rof 5,000 / 2000 h (5) - - °C 170 - continuously: rof 5,000 / 2000 h (5) - - °C 170 - continuously: rof 5,000 / 2000 h (5) - - °C 170 - continuously: rof 5,000 / 2000 h (5) - - °C 170 - roc 170 - continuously: rof 5,000 / 2000 h (5) - - - - HB H Methanical Properties at 23°C (6) - - - HB H Methanical Properties at 23°C (7) - - - - - - - - - -			ISO 62		
Thermal Properties (2)         ISO 11357-1/-3         °C         215           Melting temperature (DSC, 20°C/min) - (3)         ISO 11357-1/-3         °C         215           Class transition temperature (DSC, 20°C/min) - (3)         ISO 11357-1/-2         °C         -           Coefficient of linear thermal expansion: - average value between 23 and 60°C         -         m(m, K)         80 × 10.6°           - average value between 23 and 100°C         -         m(m, K)         80 × 10.6°         90 × 10.6°           - method A: 1.8 MPa         +         ISO 75-1/-2         °C         80           Max. allowable service temperature of load: - ontinuously: for 5,000 / 20,000 h (5)         -         °C         106           - continuously: for 5,000 / 20,000 h (5)         -         °C         105/90         Min. service temperature (6)         -         °C         106/90           - continuously: for 5,000 / 20,000 h (5)         -         °C         106/90         480 / 4			-		
Melting temperature (DSC, 10°C/min) - (3)         ISO 11367-1/.2         °C         -15           Glass transition temperature (DSC, 20°C/min) - (3)         ISO 11367-1/.2         °C         -           Thermal conductivity at 23°C         -         WI(K.m)         0.30           Coefficient of linear thermal expansion:         -         -         WI(K.m)         0.30           - average value between 23 and 100°C         -         m/(m.K)         90 x 10.6         -           Temperature of deflection under load:         -         -         -         -           - method A: 18 MPa         +         ISO 75-1/-2         °C         80           Max. allowable service temperature (6)         -         °C         170           - continuously: for 5,000 / 20,000 h (5)         -         °C         130.7           - "continuously: for 5,000 / 20,000 h (5)         -         °C         130.7           - Temain bright (7):         -         -         HB HB           - "continuously: for 5,000 / 20,000 h (5)         -         -         HB / HB           Metanical Properties at 23°C (8)         -         -         HB / HB           Metanical Properties at 23°C (8)         -         -         -         HB / HB           - tensil			-	%	6.7
Glass transition temperature (DSC, 20°C/min) - (3)         ISO 11357-1/-2         °C         .           Thermal conductivity at 23°C         -         W(K,m)         0.30         Coefficient of linear thermal expansion: - average value between 23 and 60°C         -         m(m,K)         80 x 10 <sup>4</sup> - average value between 23 and 100°C         -         m(m,K)         90 x 10 <sup>4</sup> 90 x 10 <sup>4</sup> Temperature of deflection under load: 					0 / T
Thermal conductivity at 23°C       -       Wi(K.m)       0.30         Coefficient of linear thermal expansion:       -       -       wi(m.K)       80 x 10 <sup>4</sup> -       average value between 23 and 100°C       -       mi(m.K)       90 x 10 <sup>4</sup> Temperature of deflection under load:       -       mi(m.K)       90 x 10 <sup>4</sup> -       method A: 1.8 MPa       +       ISO 75-1/-2       °C       80         Max. allowable service temperature in air:       -       °C       170       -         - continuously : for 5,000 / 20,000 h (5)       -       °C       130.       Flammability (7):       -       7C       130.         - denoting tool UL 94 (3 / 6 mm thickness)       -       -       °C       130.       Flammability (7):       -       HB / HB         - tensile strength (10)       +       ISO 627-1/-2       % Pa       80 /       -       HB / HB         Mechanical Properties at 23°C (8)       -       -       HB / HB       +       ISO 527-1/-2       MPa       80 /       -       -       HB / HB       +       ISO 527-1/-2       MPa       50 /       -       -       HB / HB       +       ISO 527-1/-2       MPa       50 /       -       25 /       -				-	
Coefficient of linear thermal expansion: - average value between 23 and 60°C       -       m/(m.K)       80 x 10 <sup>4</sup> - average value between 23 and 10°C       -       m/(m.K)       90 x 10 <sup>4</sup> Temperature of deflection under load: method A: 1.8 MPa       +       ISO 75-1/-2       °C       80         Max. allowable service temperature in air: -tor short periods (4)       -       °C       170         -continuously: for 5.000 20,000 h (5)       -       °C       105 90         Min. service temperature (6)       -       °C       30.         Flarmability (7): -torshige Index"       ISO 4589-1/-2       %       25         -according to UL 94 (3 f mm thickness)       -       -       HB / HB         Mechanical Properties at 23°C (8)       Temsine test (9): - tensile strain at yield (10)       +       ISO 527-1/-2       %       25         - tensile strain at yield (10)       +       ISO 627-1/-2       MPa       80'/       460'/         - tensile strain at break (10)       +       ISO 627-1/-2       MPa       50       5         - tensile strain at break (10)       +       ISO 627-1/-2       MPa       560'//>4       5         - tensile strain at break (10)       +       ISO 627-1/-2       MPa <td< td=""><td></td><td></td><td>150 11357-1/-2</td><td>-</td><td></td></td<>			150 11357-1/-2	-	
$\begin{array}{cccc} - a verage value between 23 and 60°C & - m(m.K) & 80 x 10^6 \\ - a verage value between 23 and 100°C & - m(m.K) & 80 x 10^6 \\ \hline method A: 13 MPa & 150 75-1/2 °C & 80 \\ \hline Max. allowable service temperature in air: - tor short periods (4) & - °C & 105 90 \\ \hline min. service temperature (6) & - °C & 105 90 \\ \hline min. service temperature (6) & - °C & 105 90 \\ \hline min. service temperature (6) & - °C & 105 90 \\ \hline min. service temperature (6) & - °C & 105 90 \\ \hline min. service temperature (6) & - °C & 105 90 \\ \hline min. service temperature (7) & - 000 (20,000 h (5) & - °C & 105 90 \\ \hline min. service temperature (6) & - °C & 105 90 \\ \hline min. service temperature (7) & - 000 (20,000 h (7) & - 000 h (7) & - 000 (20,000 h (7) & - 000 h (7) & - 00$			-	W/(K.m)	0.30
- average value between 23 and 100°C         - m(m,K)         90 x 10 <sup>46</sup> Temperature of deflection under load:         - nethod A: 18 MPa         + ISO 75-1/-2         °C         80           Max. allovable service temperature in air:         - °C         170         - °C         105/90           - continuously: for 5,000 / 20,000 h (5)         - °C         170         - °C         170           - continuously: for 5,000 / 20,000 h (5)         - °C         130         Flammability (7):         - °C         130           - Toxygen Index*         - SO 4589-1/-2         %         25         - 300           - according to UL 94 (3 / 6 nm thickness)         -          - HB / HB         Hechanical Properties at 23°C (8)           Tension test (9):         - tensile strength (10)         + ISO 527-1/-2         MPa         80/ +           - tensile strength (10)         + ISO 527-1/-2         MPa         320         -           - tensile strain at yield (10)         + ISO 527-1/-2         MPa         3400           + tensile strain at yield (10)         + ISO 527-1/-2         MPa         3400           - tensile modulus of elasticity (11)         + ISO 527-1/-2         MPa         3400           - tensile modulus of elasticity (11)         + ISO 5021-1/-2         MPa         <				m/(m K)	00 · · 40 <sup>-6</sup>
Temperature of deflection under load: - method A: 1.8 MPa         +         ISO 75-1/-2         °C         80           Max. allowable service temperature in air: - for short periods (4)         -         °C         170           - continuously: for 5,000 / 20,000 h (5)         -         °C         105/90           Min. service temperature (6)         -         °C         30.           Flarmability (7): - 'Oxygen Index"         -         HB / HB           - according to UL 94 (3 / 6 mm thickness)         -         -         HB / HB           Mechanical Properties at 23°C (6)         -         +         HB / HB           Tension test (9):         -         +         ISO 527-1/-2         MPa         80/           - tensile strength (10)         +         ISO 527-1/-2         MPa         82         -         50           - tensile strength strength (10)         +         ISO 527-1/-2         MPa         82         -         50           - tensile strength of elsocity (11)         +         ISO 527-1/-2         MPa         26         -         50           - tensile strength or (12):         -         SO 527-1/-2         MPa         21         -         50         50           - tensile strength or (12):         +			-	. ,	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	*		-	m/(m. <b>k</b> )	90 x 10 <sup>-2</sup>
Max. allowable service temperature in air: <ul> <li>- for short periods (4)</li> <li>- °C</li> <li>100</li> <li>- °C</li> <li>105,900</li> <li>Min. service temperature (6)</li> <li>- °C</li> <li>- °C</li></ul>			190 75 1/ 2	°C	80
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		÷	130 7 3-17-2	C	00
- continuously: for 5,000 / 20,000 h (5) Min. service temperature (6) Flammability (7): - 'Oxygen Index" - Oxygen Index" - Concision Index - Concision I				۰r	170
Min. service temperature (6)       -       *C       30         Flammability (7):       -       'S0 4589-1/-2       %       25         - according to UL 94 (3 / 6 mm thickness)       -       -       HB / HB         Mechanical Properties at 23°C (8)       -       -       HB / HB         Tension test (9):       -       -       HB / HB         - tensile strength (10)       +       ISO 527-1/-2       MPa       80 / 1         - tensile strength (10)       +       ISO 527-1/-2       MPa       82         - tensile strain at yield (10)       +       ISO 527-1/-2       MPa       82         - tensile strain at yield (10)       +       ISO 527-1/-2       %       5         - tensile strain at yield (10)       +       ISO 527-1/-2       %       5         - tensile strain at yield (10)       +       ISO 527-1/-2       %       5         - tensile strain at yield (10)       +       ISO 527-1/-2       MPa       3400         Compressive stress at 1 / 2 / 5 % nominal strain (11)       +       ISO 604       MPa       25 / 49 / 88         Creapt strit intension (9):       - stress to produce 1% strain in 1000 h (6* 1000)       +       ISO 899-1       MPa       9         Charpy			-		
Flammability (7):       -'Oxygen Index'       ISO 4589-1/-2       %       25         - according to UL 94 (3/6 mm thickness)       -       -       HB / HB         Mechanical Properties at 23°C (3)       -       -       HB / HB         Tension test (9):       -       -       HB / HB         - tensile stress at yield / tensile stress at break (10)       +       ISO 527-1/-2       MPa       80 / 1         - tensile strain at yield (10)       +       ISO 627-1/-2       MPa       82       -         - tensile strain at break (10)       +       ISO 627-1/-2       %       > 50         - tensile strain at break (10)       +       ISO 627-1/-2       %       > 50         - tensile modulus of elasticity (11)       +       ISO 627-1/-2       MPa       3400         Compressive stress at 1 / 2 / 5 % nominal strain (11)       +       ISO 604       MPa       25 / 49 / 88         Creep test in tension (9):       -       ISO 179-1/16L       MPa       9       1650         Charpy impact strength - Notched       +       ISO 179-1/16L       MPa       9       15         Charpy impact strength - Notched       +       ISO 179-1/16L       MPa       3.5       120       100179-1/16L       k.J/m²       3.5 <td></td> <td></td> <td>-</td> <td>- / - 3</td> <td></td>			-	- / - 3	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $			-		-50
$\begin{array}{c c c c c c c c c c c c c c c c c c c $			150 /580 1/-2	0/_	25
Mechanical Properties at 23°C (8)         Tension test (9):         - tensile stress at yield / tensile stress at break (10)       +       ISO 527-1/-2       MPa       80 /         - tensile strength (10)       +       ISO 527-1/-2       MPa       82         - tensile strain at yield (10)       +       ISO 527-1/-2       MPa       82         - tensile strain at break (10)       +       ISO 527-1/-2       %-       5         - tensile strain at break (10)       +       ISO 527-1/-2       %-       5         - tensile strain at break (10)       +       ISO 527-1/-2       %-       5         - tensile strain at break (10)       +       ISO 527-1/-2       MPa       25         - tensile strain at break (10)       +       ISO 527-1/-2       MPa       3400         +       ISO 527-1/-2       MPa       3400       +       ISO 527-1/-2       MPa       3400         - tensile modulus of elasticity (11)       +       ISO 604       MPa       25 / 49 / 88       7         Compressive stress at 1/2/5 % nominal strain (11)       +       ISO 604       MPa       21       15         Creep test in tension (9):       -       stress to produce 1% strain in 1000 h (\$\$_{1/1000}\$       +			-	/0	
Tension test (9):       - tensile stress at yield / tensile stress at break (10)       +       ISO 527-11/2       MPa       80 / 1         - tensile strength (10)       +       ISO 527-11/2       MPa       82         - tensile strain at yield (10)       +       ISO 527-11/2       MPa       82         - tensile strain at yield (10)       +       ISO 527-11/2       %       25         - tensile strain at break (10)       +       ISO 527-11/2       %       25         - tensile modulus of elasticity (11)       +       ISO 527-11/2       MPa       3400         ++       ISO 527-11/2       MPa       3400       +       ISO 527-11/2       MPa       3400         - tensile modulus of elasticity (11)       +       ISO 527-11/2       MPa       3400         ++       ISO 527-11/2       MPa       3400       +       ISO 527-11/2       MPa       3400         - compressive stress at 1/2/5 % nominal strain (11)       +       ISO 604       MPa       25 / 49 / 88       Compression test (12):       -       Stress to produce 1% strain in 1000 h (6 _11000)       +       ISO 179-11/164       KJ/m²       3.5         Izod impact strength - Notched       +       ISO 179-11/164       KJ/m²       3.5       5					
$\begin{array}{c} - \text{ tensile stress at yield / tensile stress at break (10) \\ + \text{ tensile strength (10) \\ - \text{ tensile strength (10) } + \text{ tso 527-1/-2 } & \text{MPa} & 50/- \\ + \text{ tso 527-1/-2 } & \text{MPa} & 50/- \\ + \text{ tso 527-1/-2 } & \text{MPa} & 50/- \\ + \text{ tso 527-1/-2 } & \text{MPa} & 50/- \\ + \text{ tso 527-1/-2 } & \text{MPa} & 50/- \\ + \text{ tso 527-1/-2 } & \text{MPa} & 50/- \\ + \text{ tso 527-1/-2 } & \text{MPa} & 50/- \\ + \text{ tso 527-1/-2 } & \text{MPa} & 50/- \\ + \text{ tso 527-1/-2 } & \text{MPa} & 50/- \\ + \text{ tso 527-1/-2 } & \text{MPa} & 50/- \\ + \text{ tso 527-1/-2 } & \text{MPa} & 50/- \\ + \text{ tso 527-1/-2 } & \text{MPa} & 50/- \\ + \text{ tso 527-1/-2 } & \text{MPa} & 50/- \\ + \text{ tso 527-1/-2 } & \text{MPa} & 50/- \\ + \text{ tso 527-1/-2 } & \text{MPa} & 50/- \\ + \text{ tso 527-1/-2 } & \text{MPa} & 50/- \\ - \text{ tensile modulus of elasticity (11) } & + \text{ tso 527-1/-2 } & \text{MPa} & 1650 \\ \hline \text{Compression test (12): } & - \text{ compressive stress at 1 / 2 / 5 % nominal strain (11) } & + \text{ tso 527-1/-2 } & \text{MPa} & 1650 \\ \hline \text{Compressive stress to produce 1% strain in 1000 h ($\sigma_{11000}$) } & + \text{ tso 179-1/1eA } & \text{kJ/m^2 } & no break \\ \hline \text{Charpy impact strength - Unnotched (13) } & + \text{ tso 179-1/1eA } & \text{kJ/m^2 } & 3.5 \\ \hline \text{tzod impact strength - Notched } & + \text{ tso 179/1/1eA } & \text{kJ/m^2 } & 3.5 \\ \hline \text{tzod impact strength - Notched } & + \text{ tso 180/A } & \text{kJ/m^2 } & 7 \\ \hline \text{Ball indentation hardness (14) } & + \text{ tso 2039-1 } & \text{N/mm^2 } & 160 \\ \hline \text{Rockwell hardness (14) } & + \text{ tso 2039-2 } & - & \text{M 84 } \\ \hline \text{Electrical Properties at 23 °C \\ \hline \text{Electrical Properties at 23 °C } & & \\ \hline \text{Electrical Properties at 23 °C } & & \\ \hline \text{Electrical Properties at 100 Hz } & + \text{ IEC 60093 } & \text{Ohm. } > 10^{12} \\ + & \text{ IEC 60093 } & \text{Ohm. } > 10^{12} \\ + & \text{ IEC 60093 } & \text{Ohm. } > 10^{12} \\ \hline \text{Relative permittivity $\epsilon_r: - at 100 Hz } & + \text{ IEC 60250 } - & 3.6 \\ & + t \text{ IEC 60250 } - & 0.012 \\ & + t \text{ IEC 60250 } - & 0.012 \\ & + t \text{ IEC 60250 } - & 0.012 \\ & + t \text{ IEC 60250 } - & 0.012 \\ & + t \text{ IEC 60250 } - & 0.014 \\ & + \text{ IEC 60250 } - & 0.016 \\ & + t \text{ IEC 60250 } - & 0.016$			(	12.5	1
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		+	150 527-1/-2	MPa	80160
$\begin{array}{cccc} - \mbox{tensile strength} (10) & + & \mbox{ISO} 527-1/2 & \mbox{MPa} & \mbox{82} \\ - \mbox{tensile strain at yield} (10) & + & \mbox{ISO} 527-1/2 & \mbox{%} & > 50 \\ - \mbox{tensile strain at break} (10) & + & \mbox{ISO} 527-1/2 & \mbox{%} & > 50 \\ - \mbox{tensile modulus of elasticity} (11) & + & \mbox{ISO} 527-1/2 & \mbox{MPa} & \mbox{3400} \\ + & \mbox{ISO} 527-1/2 & \mbox{MPa} & \mbox{3400} \\ + & \mbox{ISO} 527-1/2 & \mbox{MPa} & \mbox{3400} \\ + & \mbox{ISO} 527-1/2 & \mbox{MPa} & \mbox{3400} \\ + & \mbox{ISO} 527-1/2 & \mbox{MPa} & \mbox{3400} \\ + & \mbox{ISO} 527-1/2 & \mbox{MPa} & \mbox{3400} \\ + & \mbox{ISO} 527-1/2 & \mbox{MPa} & \mbox{3400} \\ + & \mbox{ISO} 527-1/2 & \mbox{MPa} & \mbox{3400} \\ + & \mbox{ISO} 527-1/2 & \mbox{MPa} & \mbox{3400} \\ + & \mbox{ISO} 527-1/2 & \mbox{MPa} & \mbox{3400} \\ + & \mbox{ISO} 527-1/2 & \mbox{MPa} & \mbox{3400} \\ + & \mbox{ISO} 527-1/2 & \mbox{MPa} & \mbox{3400} \\ + & \mbox{ISO} 527-1/2 & \mbox{MPa} & \mbox{3400} \\ + & \mbox{ISO} 527-1/2 & \mbox{MPa} & \mbox{3400} \\ + & \mbox{ISO} 527-1/2 & \mbox{MPa} & \mbox{3400} \\ + & \mbox{ISO} 527-1/2 & \mbox{MPa} & \mbox{3400} \\ + & \mbox{ISO} 5004 & \mbox{MPa} & \mbox{25/49/88} \\ - \mbox{charge impact strength} - \mbox{Notched} & + & \mbox{ISO} 179-1/164 & \mbox{KJ/m}^2 & \mbox{3.5} \\ \mbox{Icod impact strength} - \mbox{Notched} & + & \mbox{ISO} 180/A & \mbox{KJ/m}^2 & \mbox{3.5} \\ \mbox{Icod impact strength} - \mbox{Notched} & + & \mbox{ISO} 180/A & \mbox{KJ/m}^2 & \mbox{3.5} \\ \mbox{Icod impact strength} - \mbox{Notched} & + & \mbox{ISO} 180/A & \mbox{KJ/m}^2 & \mbox{3.5} \\ \mbox{Icod impact strength} - \mbox{Notched} & + & \mbox{ISO} 180/A & \mbox{KJ/m}^2 & \mbox{3.5} \\ \mbox{Icod impact strength} - \mbox{Notched} & + & \mbox{ISO} 2039-2 & - & \mbox{M84} \\ \mbox{Electrical Properties at 23 °C} \\ \mbox{Electrical Properties at 23 °C} & & \mbox{3.6} \\ \mbox{-extrangle ersistivity} & + & \mbox{IEC} 60093 & \mbox{Ohm} & > 10^{12} \\ \mbox{Relative permittivity $\epsilon_r$: - at 100 Hz} & + & \mbox{IEC} 60250 & - & \mbox{3.6} \\ $	- tensile suess at yield / tensile suess at break (10)				1
$\begin{array}{c} \mbox{- tensile strain at yield (10)} &+ ISO 527-1/-2 &\% & 5 \\ \mbox{- tensile strain at break (10)} &+ ISO 527-1/-2 &\% & 5 \\ \mbox{- tensile strain at break (10)} &+ ISO 527-1/-2 &\% & 5 \\ \mbox{- tensile modulus of elasticity (11)} &+ ISO 527-1/-2 &\% & 5 \\ \mbox{- tensile modulus of elasticity (11)} &+ ISO 527-1/-2 &\% & 5 \\ \mbox{- tensile modulus of elasticity (11)} &+ ISO 527-1/-2 &\% & 5 \\ \mbox{- tensile modulus of elasticity (11)} &+ ISO 527-1/-2 &\% & 5 \\ \mbox{- tensile modulus of elasticity (11)} &+ ISO 527-1/-2 &\% & 5 \\ \mbox{- tensile modulus of elasticity (11)} &+ ISO 527-1/-2 &\% & 5 \\ \mbox{- tensile modulus of elasticity (11)} &+ ISO 527-1/-2 &\% & 5 \\ \mbox{- tensile modulus of elasticity (11)} &+ ISO 500 & MPa & 3400 \\ \mbox{+ Hoods of tension (9)} &+ ISO 604 & MPa & 25 / 49 / 88 \\ \mbox{- creep test in tension (9)} &+ ISO 604 & MPa & 21 \\ \mbox{+ Hoods of the module (13)} &+ ISO 179-1/16U & k/m^2 & no break \\ \mbox{- tenspt impact strength} - Unnotched (13) &+ ISO 179-1/16U & k/m^2 & 3.5 \\ \mbox{Izod impact strength} - Notched &+ ISO 180/A & k/m^2 & 7 \\ \mbox{- lad model strength} - Notched &+ ISO 180/A & k/m^2 & 7 \\ \mbox{- lad model strength} - Notched &+ ISO 2039-1 & N/mm^2 & 160 \\ \mbox{- rot strength} - Notched &+ ISO 2039-2 &- & M 84 \\ \mbox{- lectrical Properties at 23 °C} \\ \mbox{- lectrical Properties at 23 °C} \\ \mbox{- lectrical Properties at 23 °C} \\ \mbox{- lectrical resistivity} &+ IEC 60093 & Ohm &> 10^{12} \\ \mbox{- strain MHz} &+ IEC 60033 & Ohm &> 10^{12} \\ \mbox{- at 1 MHz} &+ IEC 60050 &- & 3.6 \\ \mbox{- at 1 MHz} &+ IEC 60250 &- & 3.7 \\ \mbox{- bielectric dissipation factor tan \delta: - at 100 Hz &+ IEC 60250 &- & 0.012 \\ \mbox{- at 1 MHz} &+ IEC 60250 &- & 0.016 \\ \mbox{- at 1 MHz} &+ IEC 60250 &- & 0.016 \\ \mbox{- at 1 MHz} &+ IEC 60250 &- & 0.016 \\ \mbox{- at 1 MHz} &+ IEC 60250 &- & 0.016 \\ \mbox{- at 1 MHz} &+ IEC 60250 &- & 0.05 \\ \mbox{- comparative tracking index (CTI)} &+ IEC 60112 &- & 600 \\ \mbox{- at 1 MHz} &+ IEC 60112 &- & 600 \\ \mbox{- at 1 MHz} &+ IEC 6011$	- tensile strength (10)			V -	1
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		1			( ) / )
$\begin{array}{c} ++ & \text{ISO } 527\text{-}1/2 & \% & > 50 \\ + & \text{ISO } 527\text{-}1/2 & \text{MPa} & 3400 \\ + & \text{ISO } 527\text{-}1/2 & \text{MPa} & 3400 \\ + & \text{ISO } 527\text{-}1/2 & \text{MPa} & 3400 \\ + & \text{ISO } 527\text{-}1/2 & \text{MPa} & 3600 \\ + & \text{ISO } 527\text{-}1/2 & \text{MPa} & 1650 \\ \hline \\ \text{Compressive stress at } 1/2/5\% \text{ nominal strain (11)} & + & \text{ISO } 604 & \text{MPa} & 25/49/88 \\ \hline \\ \text{Creep test in tension (9):} & + & \text{ISO } 639\text{-}1 & \text{MPa} & 9 \\ \hline \\ \text{Charpy impact strength - Unnotched (13)} & + & \text{ISO } 179\text{-}1/1eU & \text{KJ/m}^2 & \text{no break} \\ \hline \\ \text{Charpy impact strength - Notched} & + & \text{ISO } 179\text{-}1/1eU & \text{KJ/m}^2 & 3.5 \\ \hline \\ \text{Izod impact strength - Notched} & + & \text{ISO } 180/A & \text{KJ/m}^2 & 3.5 \\ \hline \\ \text{Izod impact strength - Notched} & + & \text{ISO } 180/A & \text{KJ/m}^2 & 7 \\ \hline \\ \text{Ball indentation hardness (14)} & + & \text{ISO } 2039\text{-}1 & \text{N/mm}^2 & 160 \\ \hline \\ \text{Rockwell hardness (14)} & + & \text{ISO } 2039\text{-}2 & - & \text{M84} \\ \hline \\ \text{Electric strength (15)} & + & \text{IEC } 60243\text{-}1 & \text{KV/mm} & 24 \\ \hline \\ \text{Volume resistivity} & + & \text{IEC } 60243\text{-}1 & \text{KV/mm} & 26 \\ \hline \\ \text{Volume resistivity} & + & \text{IEC } 60033 & \text{Ohm} & > 10^{12} \\ \hline \\ \text{Surface resistivity} & + & \text{IEC } 60250 & - & 3.6 \\ \hline \\ \text{relative permittivity } \epsilon_r : - at 100 \text{ Hz} & + & \text{IEC } 60250 & - & 3.6 \\ \hline \\ \text{relative permittivity } \epsilon_r : - at 100 \text{ Hz} & + & \text{IEC } 60250 & - & 3.7 \\ \hline \\ \text{Dielectric dissipation factor tan } \delta: & -at 100 \text{ Hz} & + & \text{IEC } 60250 & - & 0.012 \\ \hline \\ \text{relative tracking index (CTI) & + & \text{IEC } 60250 & - & 0.012 \\ \hline \end{array}$		+	1 1	11 1	0112
$\begin{array}{c c c c c c c c c c c c c c c c c c c $				11 11	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	- tensile modulus of elasticity (11)		1.00		17
$\begin{array}{c c} \mbox{Compression test (12):} & - \mbox{compressive stress at 1 / 2 / 5 \% nominal strain (11)} & + \mbox{ISO 604} & \mbox{MPa} & \mbox{25 / 49 / 88} \\ \hline \mbox{Creep test in tension (9):} & - \mbox{stress to produce 1% strain in 1000 h ($\sigma_{11000}$)} & + \mbox{ISO 899-1} & \mbox{MPa} & \mbox{21} \\ + \mbox{ISO 899-1} & \mbox{MPa} & \mbox{21} \\ + \mbox{ISO 179-1/1eA} & \mbox{k/lm}^2 & \mbox{3.5} \\ \hline \mbox{Charpy impact strength - Notched} & + \mbox{ISO 179-1/1eA} & \mbox{k/lm}^2 & \mbox{3.5} \\ \hline \mbox{Izo dimpact strength - Notched} & + \mbox{ISO 180/A} & \mbox{k/lm}^2 & \mbox{3.5} \\ \hline \mbox{Izo dimpact strength - Notched} & + \mbox{ISO 180/A} & \mbox{k/lm}^2 & \mbox{3.5} \\ \hline \mbox{Izo dimpact strength - Notched} & + \mbox{ISO 180/A} & \mbox{k/lm}^2 & \mbox{3.5} \\ \hline \mbox{Izo dimpact strength - Notched} & + \mbox{ISO 180/A} & \mbox{k/lm}^2 & \mbox{7} \\ \hline \mbox{Ball indentation hardness (14)} & + \mbox{ISO 2039-1} & \mbox{N/mm}^2 & \mbox{160} \\ \hline \mbox{Rockwell hardness (14)} & + \mbox{ISO 2039-2} & - \mbox{M84} \\ \hline \mbox{Electrical Properties at 23 °C} \\ \hline \mbox{Electric strength (15)} & + \mbox{IEC 60093} & \mbox{Ohm.cm} & > \mbox{10} & \mbox{14} \\ \hline \mbox{Volume resistivity} & + \mbox{IEC 60093} & \mbox{Ohm.cm} & > \mbox{10} & \mbox{14} \\ \hline \mbox{Relative permittivity $\mbox{$\mathcal{r}$} : - at 100 Hz} & + \mbox{IEC 60250} & - \mbox{3.6} \\ \hline \mbox{++} & \mbox{IEC 60250} & - \mbox{3.7} \\ \hline \mbox{Dielectric dissipation factor tan $\mbox{5}$ : - at 100 Hz} & + \mbox{IEC 60250} & - \mbox{3.7} \\ \hline \mbox{Dielectric dissipation factor tan $\mbox{5}$ : - at 100 Hz} & + \mbox{IEC 60250} & - \mbox{3.7} \\ \hline \mbox{Dielectric dissipation factor tan $\mbox{5}$ : - at 100 Hz} & + \mbox{IEC 60250} & - \mbox{3.7} \\ \hline \mbox{Dielectric dissipation factor tan $\mbox{5}$ : - at 100 Hz} & + \mbox{IEC 60250} & - \mbox{3.7} \\ \hline \mbox{Dielectric dissipation factor tan $\mbox{5}$ : - at 100 Hz} & + \mbox{IEC 60250} & - \mbox{3.7} \\ \hline \mbox{Dielectric dissipation factor tan $\mbox{5}$ : - at 100 Hz} & + \mbox{IEC 60250} & $		1		/ 6 2 /	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Compression test (12):	1		1 CC	
$\begin{array}{c} \mbox{Creep test in tension (9):} & + & ISO 899-1 & MPa & 21 \\ ++ & ISO 899-1 & MPa & 9 \\ \mbox{Charpy impact strength - Unnotched (13)} & + & ISO 179-1/16U & kJ/m^2 & no break \\ \mbox{Charpy impact strength - Notched} & + & ISO 179-1/16V & kJ/m^2 & 3.5 \\ \mbox{Izcod impact strength - Notched} & + & ISO 179-1/16V & kJ/m^2 & 3.5 \\ \mbox{Izcod impact strength - Notched} & + & ISO 179-1/16V & kJ/m^2 & 3.5 \\ \mbox{Izcod impact strength - Notched} & + & ISO 180/A & kJ/m^2 & 7 \\ \mbox{Ball indentation hardness (14)} & + & ISO 2039-1 & N/mm^2 & 160 \\ \mbox{Rockwell hardness (14)} & + & ISO 2039-2 & - & M 84 \\ \mbox{Electrical Properties at 23 °C} & & & & \\ \mbox{Electric strength (15)} & + & IEC 60243-1 & kV/mm & 16 \\ \mbox{Volume resistivity} & + & IEC 60093 & Ohm.cm & > 10 ^{14} \\ \mbox{++} & IEC 60093 & Ohm.cm & > 10 ^{12} \\ \mbox{Surface resistivity} & + & IEC 60093 & Ohm & > 10 ^{12} \\ \mbox{Surface resistivity} & + & IEC 60093 & Ohm & > 10 ^{12} \\ \mbox{Relative permittivity $\varepsilon_{1}$ - at 100 Hz} & + & IEC 60250 & - & 3.7 \\ \mbox{Dielectric dissipation factor tan $\varepsilon_{1}$ - at 1 MHz} & + & IEC 60250 & - & 0.016 \\ \mbox{++} & IEC 60250 & - &$		J.	150 604	MPa	25/49/88
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		/		Star	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		+	ISO 899-1	MPa	21
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	( 11000)				
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Charpy impact strength - Unnotched (13)	+			no break
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		×		kJ/m²	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		+		kJ/m²	
Rockwell hardness (14)         +         ISO 2039-2         -         M 84           Electrical Properties at 23 °C         Electric strength (15)         +         IEC 60243-1         kV/mm         24           Volume resistivity         +         IEC 60243-1         kV/mm         16           Volume resistivity         +         IEC 60093         Ohm.cm         > 10 <sup>14</sup> Surface resistivity         +         IEC 60093         Ohm.cm         > 10 <sup>12</sup> Relative permittivity $\varepsilon_r$ : - at 100 Hz         +         IEC 60250         -         3.6           at 1 MHz         +         IEC 60250         -         3.7           Dielectric dissipation factor tan $\delta$ : - at 100 Hz         +         IEC 60250         -         0.14           - at 1 MHz         +         IEC 60250         -         0.14           - at 1 MHz         +         IEC 60250         -         0.14           - at 1 MHz         +         IEC 60250         -         0.14           - at 1 MHz         +         IEC 60250         -         0.016           ++         IEC 60250         -         0.016         ++         IEC 60250         -         0.016		++	ISO 180/A	kJ/m²	7
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Ball indentation hardness (14)	+	ISO 2039-1	N/mm <sup>2</sup>	160
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		+	ISO 2039-2	-	M 84
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Electrical Properties at 23 °C				
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		+/	IEC 60243-1	kV/mm	24
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		4+	IEC 60243-1	kV/mm	16
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Volume resistivity	+	IEC 60093	Ohm.cm	> 10 <sup>14</sup>
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		++	IEC 60093	Ohm.cm	> 10 12
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Surface resistivity	+	IEC 60093	Ohm	> 10 <sup>13</sup>
++         IEC 60250         -         6.6           - at 1 MHz         +         IEC 60250         -         3.2           ++         IEC 60250         -         3.7           Dielectric dissipation factor tan δ:         - at 100 Hz         +         IEC 60250         -         0.012           ++         IEC 60250         -         0.012         ++         IEC 60250         -         0.014           - at 1 MHz         +         IEC 60250         -         0.016         ++         IEC 60250         -         0.05           Comparative tracking index (CTI)         +         IEC 60112         -         600		++	IEC 60093	Ohm	
++         IEC 60250         -         6.6           - at 1 MHz         +         IEC 60250         -         3.2           ++         IEC 60250         -         3.7           Dielectric dissipation factor tan δ:         - at 100 Hz         +         IEC 60250         -         0.012           ++         IEC 60250         -         0.012         ++         IEC 60250         -         0.014           - at 1 MHz         +         IEC 60250         -         0.016         ++         IEC 60250         -         0.05           Comparative tracking index (CTI)         +         IEC 60112         -         600	Relative permittivity ε <sub>r</sub> : - at 100 Hz	+	IEC 60250	-	3.6
++         IEC 60250         -         3.7           Dielectric dissipation factor tan δ:         - at 100 Hz         +         IEC 60250         -         0.012           ++         IEC 60250         -         0.14           - at 1 MHz         +         IEC 60250         -         0.016           ++         IEC 60250         -         0.05           Comparative tracking index (CTI)         +         IEC 60112         -         600		++	IEC 60250	-	6.6
++         IEC 60250         -         3.7           Dielectric dissipation factor tan δ:         - at 100 Hz         +         IEC 60250         -         0.012           ++         IEC 60250         -         0.14           - at 1 MHz         +         IEC 60250         -         0.016           ++         IEC 60250         -         0.05           Comparative tracking index (CTI)         +         IEC 60112         -         600	- at 1 MHz	+	IEC 60250	-	3.2
Dielectric dissipation factor tan δ:         - at 100 Hz         +         IEC 60250         -         0.012           ++         IEC 60250         -         0.14           - at 1 MHz         +         IEC 60250         -         0.016           ++         IEC 60250         -         0.016           ++         IEC 60250         -         0.05           Comparative tracking index (CTI)         +         IEC 60112         -         600		++	IEC 60250		
- at 1 MHz         +         IEC 60250         -         0.016           ++         IEC 60250         -         0.05           Comparative tracking index (CTI)         +         IEC 60112         -         600	Dielectric dissipation factor tan δ: - at 100 Hz	+		-	
++         IEC 60250         -         0.05           Comparative tracking index (CTI)         +         IEC 60112         -         600		++	IEC 60250	-	0.14
Comparative tracking index (CTI) + IEC 60112 - 600	- at 1 MHz	+	IEC 60250	-	0.016
		++	IEC 60250	-	0.05
++ IEC 60112 - 600	Comparative tracking index (CTI)	+	IEC 60112	-	600
		++	IEC 60112	-	600

GSM

Note: 1 g/cm<sup>3</sup> = 1,000 kg/m<sup>3</sup>; 1 MPa = 1 N/mm<sup>2</sup>; 1 kV/mm = 1 MV/m.

## AVAILABILITY

Round Rods: Ø 50-500 mm - Plates: Thicknesses 10-100 mm - Tubes: O.D. 50-600 mm

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