

Physical properties (indicative values ■)

PROPERTIES	Test methods	Units	VALUES
Colour	-	-	natural (amber, translucent)
Density	ISO 1183-1	g/cm ³	1.27
Water absorption:			
- after 24/96 h immersion in water of 23 °C (1)	ISO 62	mg	16 / 34
	ISO 62	%	0.19 / 0.40
- at saturation in air of 23 °C / 50 % RH	-	%	0.70
- at saturation in water of 23 °C	-	%	1.30
Thermal Properties (2)			
Melting temperature (DSC, 10 °C/min)	ISO 11357-1/-3	°C	NA
Glass transition temperature (DSC, 20 °C/min) - (3)	ISO 11357-1/-2	°C	215
Thermal conductivity at 23 °C	-	W/(K.m)	0.24
Coefficient of linear thermal expansion:			
- average value between 23 and 100 °C	-	m/(m.K)	50 x 10 ⁻⁶
- average value between 23 and 150 °C	-	m/(m.K)	50 x 10 ⁻⁶
- average value above 150 °C	-	m/(m.K)	60 x 10 ⁻⁶
Temperature of deflection under load:			
- method A: 1.8 MPa	ISO 75-1/-2	°C	195
Max. allowable service temperature in air:			
- for short periods (4)	-	°C	200
- continuously : for min. 20,000 h (5)	-	°C	170
Min. service temperature (6)	-	°C	-50
Flammability (7):			
- "Oxygen Index"	ISO 4589-1/-2	%	47
- according to UL 94 (1.5 / 3 mm thickness)	-	-	V-0 / V-0
Mechanical Properties at 23 °C (8)			
0			
Tension test (9):			
- tensile stress at yield / tensile stress at break (10)	ISO 527-1/-2	MPa	129 / -
- tensile strength (10)	ISO 527-1/-2	MPa	129
- tensile strain at yield(10)	ISO 527-1/-2	%	7
- tensile strain at break (10)	ISO 527-1/-2	%	13
- tensile modulus of elasticity (11)	ISO 527-1/-2	MPa	3500
Compression test (12):			
- compressive stress at 1 / 2 / 5 % nominal strain (11)	ISO 604	MPa	31 / 61 / 137
Charpy impact strength - unnotched (13)	ISO 179-1/1eU	kJ/m ²	no break
Charpy impact strength - notched	ISO 179-1/1eA	kJ/m ²	3.5
Ball indentation hardness (14)	ISO 2039-1	N/mm ²	165
Rockwell hardness (14)	ISO 2039-2	-	M 115
Electrical Properties at 23 °C			
0			
Electric strength (15)	IEC 60243-1	kV/mm	27
Volume resistivity	IEC 60093	Ohm.cm	> 10 ¹⁴
Surface resistivity	ANSI/ESD STM 11.11	Ohm/sq.	> 10 ¹³
Relative permittivity ϵ_r : - at 100 Hz	IEC 60250	-	3.0
- at 1 MHz	IEC 60250	-	3.0
Dielectric dissipation factor tan δ : - at 100 Hz	IEC 60250	-	0.002
- at 1 MHz	IEC 60250	-	0.002
Comparative tracking index (CTI)	IEC 60112	-	175

 Note: 1 g/cm³ = 1,000 kg/m³; 1 MPa = 1 N/mm²; 1 kV/mm = 1 MV/m.

NA: not applicable