

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	16700 / 13000	MPa	ISO 527
Stress at break	225 / 175	MPa	ISO 527
Strain at break	2.5 / 3.5	%	ISO 527
Flexural strength	315 / 225	MPa	ISO 178
Charpy impact strength, +23°C	100 / 110	kJ/m ²	ISO 179/1eU
Charpy impact strength, -30°C	90 / 95	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	18 / 20	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	17 / 17	kJ/m ²	ISO 179/1eA
Izod notched impact strength, +23°C	16 / 18	kJ/m ²	ISO 180/1A
Izod notched impact strength Temperature	15 / 15	kJ/m ²	ISO 180/1A
	-30	°C	-

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
Melting temperature, 10°C/min	262 / *	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	250 / *	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	250 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	14 / *	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	57 / *	E-6/K	ISO 11359-1/-2
Burning behav. at 1.5 mm nom. thickn. Thickness tested	HB / *	class	IEC 60695-11-10
	1.6 / *	mm	-
Burning behav. at thickness h Thickness tested	HB / *	class	IEC 60695-11-10
	0.8 / *	mm	-
Glow Wire Flammability Index (GWFI)	650	°C	IEC 60695-2-12
GWFI - thickness tested (1)	0.75	mm	-
Glow Wire Flammability Index (GWFI)	650	°C	IEC 60695-2-12
GWFI - thickness tested (2)	1.6	mm	-
Glow Wire Ignition Temperature (GWIT)	675	°C	IEC 60695-2-13
GWIT - thickness tested (1)	0.75	mm	-
Glow Wire Ignition Temperature (GWIT)	675	°C	IEC 60695-2-13
GWIT - thickness tested (2)	1.6	mm	-

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
Relative permittivity, 1MHz	3.8 / 6.4	-	IEC 62631-2-1
Dissipation factor, 1MHz	150 / 1690	E-4	IEC 62631-2-1
Volume resistivity	1E13 / 1E10	Ohm*m	IEC 62631-3-1
Surface resistivity	* / 1E10	Ohm	IEC 62631-3-2
Electric strength	35 / 30	kV/mm	IEC 60243-1
Comparative tracking index	550 / -	-	IEC 60112

Other properties	dry / cond	Unit	Test Standard
Water absorption	4.3 / *	%	Sim. to ISO 62
Humidity absorption	1.4 / *	%	Sim. to ISO 62
Density	1550 / -	kg/m ³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	2 - 4	h	-
Processing humidity	≤0.15	%	-
Melt temperature	280 - 300	°C	-
Mold temperature	80 - 90	°C	-

Characteristics

Processing

Injection Molding

Special Characteristics

Heat stabilized or stable to heat

Regional Availability

North America, Europe, Asia Pacific, South and Central America,
Near East/Africa