

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	6000 / 3000	MPa	ISO 527
Stress at break	95 / 50	MPa	ISO 527
Strain at break	3.5 / 6	%	ISO 527
Flexural strength	150 / 70	MPa	ISO 178
Charpy impact strength, +23°C	40 / 110	kJ/m ²	ISO 179/1eU
Charpy impact strength, -30°C	35 / -	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	3 / 9	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	3 / -	kJ/m ²	ISO 179/1eA
Izod notched impact strength, +23°C	5 / 10	kJ/m ²	ISO 180/1A
Izod notched impact strength	4 / -	kJ/m ²	ISO 180/1A
Temperature	-30	°C	-

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
Melting temperature, 10°C/min	220 / *	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	170 / *	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	210 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	50 / *	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	55 / *	E-6/K	ISO 11359-1/-2
Burning behav. at thickness h	V-2 / *	class	IEC 60695-11-10
Thickness tested	0.8 / *	mm	-
Glow Wire Flammability Index (GWFI)	960	°C	IEC 60695-2-12
GWFI - thickness tested (1)	0.75	mm	-
Glow Wire Flammability Index (GWFI)	960	°C	IEC 60695-2-12
GWFI - thickness tested (2)	1.5	mm	-

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
Relative permittivity, 1MHz	3.8 / -	-	IEC 62631-2-1
Dissipation factor, 1MHz	150 / -	E-4	IEC 62631-2-1
Volume resistivity	1E11 / 1E9	Ohm*m	IEC 62631-3-1
Surface resistivity	* / 1E10	Ohm	IEC 62631-3-2
Comparative tracking index	550 / -	-	IEC 60112

Other properties	dry / cond	Unit	Test Standard
Water absorption	7 / *	%	Sim. to ISO 62
Humidity absorption	2.2 / *	%	Sim. to ISO 62
Density	1310 / -	kg/m ³	ISO 1183

Material specific properties	dry / cond	Unit	Test Standard
ISO Data			
Viscosity number	150 / *	cm ³ /g	ISO 307, 1157, 1628

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	250 - 275	°C	-
Mold temperature	80 - 90	°C	-

Characteristics

Processing

Injection Molding

Regional Availability

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

Special Characteristics

Flame retardant, Halogen-free