

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	160 / *	cm ³ /10min	ISO 1133
Temperature	275 / *	°C	-
Load	5 / *	kg	-
Mechanical properties			
ISO Data			
Tensile Modulus	3700 / 1500	MPa	ISO 527
Yield stress	85 / 45	MPa	ISO 527
Yield strain	5 / 50	%	ISO 527
Stress at break	85 / 45	MPa	ISO 527
Strain at break	5 / 18	%	ISO 527
Charpy impact strength, +23°C	100 / N	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	9 / 35	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	4 / -	kJ/m ²	ISO 179/1eA
Izod notched impact strength, +23°C	4.5 / 11	kJ/m ²	ISO 180/1A
Ball indentation hardness	160 / 100	MPa	ISO 2039-1
Thermal properties			
ISO Data			
Melting temperature, 10°C/min	243 / *	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	70 / *	°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	80 / *	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	90 / *	E-6/K	ISO 11359-1/-2
Burning behav. at thickness h	V-0 / *	class	IEC 60695-11-10
Thickness tested	0.4 / *	mm	-
GWFI - thickness tested (1)	960	mm	-
Glow Wire Flammability Index (GWFI)	0.4	°C	IEC 60695-2-12
GWFI - thickness tested (2)	960	mm	-
Glow Wire Flammability Index (GWFI)	3	°C	IEC 60695-2-12
GWIT - thickness tested (1)	960	mm	-
Glow Wire Ignition Temperature (GWIT)	0.4	°C	IEC 60695-2-13
GWIT - thickness tested (2)	960	mm	-
Glow Wire Ignition Temperature (GWIT)	3	°C	IEC 60695-2-13
Electrical properties			
ISO Data			
Relative permittivity, 1MHz	3.8 / 6.8	-	IEC 62631-2-1
Dissipation factor, 1MHz	230 / 2200	E-4	IEC 62631-2-1
Volume resistivity	1E11 / 1E7	Ohm*m	IEC 62631-3-1
Surface resistivity	* / 1E10	Ohm	IEC 62631-3-2
Electric strength	34 / -	kV/mm	IEC 60243-1
Comparative tracking index	600 / -	-	IEC 60112
Other properties			
dry / cond			
Water absorption	8.5 / *	%	Sim. to ISO 62
Humidity absorption	2.9 / *	%	Sim. to ISO 62
Density	1160 / -	kg/m ³	ISO 1183
Processing Recommendation Injection Molding			
Value			
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	2 - 4	h	-
Processing humidity	≤0.15	%	-
Melt temperature	250 - 270	°C	-
Mold temperature	60 - 80	°C	-

Characteristics

Processing

Injection Molding

Special Characteristics

Flame retardant, Halogen-free, Phosphorus-free

Regional Availability

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