

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.2 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	0.8 / *	%	ISO 294-4, 2577
Mechanical properties			
ISO Data			
Tensile Modulus	12400 / 8600	MPa	ISO 527
Stress at break	160 / 105	MPa	ISO 527
Strain at break	2 / 3	%	ISO 527
Flexural modulus, 23°C	10800 / 7300	MPa	ISO 178
Flexural strength	235 / 165	MPa	ISO 178
Charpy impact strength, +23°C	50 / 50	kJ/m ²	ISO 179/1eU
Charpy impact strength, -30°C	40 / 40	kJ/m ²	ISO 179/1eU
Izod impact strength, +23°C	45 / 40	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C	10 / -	kJ/m ²	ISO 180/1A
Izod notched impact strength	10 / -	kJ/m ²	ISO 180/1A
Temperature	-30	°C	-
Ball indentation hardness	250 / 129	MPa	ISO 2039-1
Thermal properties			
ISO Data			
Melting temperature, 10°C/min	260 / *	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	221 / *	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	245 / *	°C	ISO 75-1/-2
Vicat softening temperature, B	230 / *	°C	ISO 306
Coeff. of linear therm. expansion, parallel	30 / *	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	80 / *	E-6/K	ISO 11359-1/-2
Burning behav. at 1.5 mm nom. thickn.	V-0 / *	class	IEC 60695-11-10
Thickness tested	1.5 / *	mm	-
Burning behav. at thickness h	V-0 / *	class	IEC 60695-11-10
Thickness tested	0.8 / *	mm	-
Oxygen index	39.8 / *	%	ISO 4589-1/-2
Glow Wire Flammability Index (GWFI)	960	°C	IEC 60695-2-12
GWFI - thickness tested (1)	0.8	mm	-
Glow Wire Flammability Index (GWFI)	960	°C	IEC 60695-2-12
GWFI - thickness tested (2)	1.5	mm	-
Glow Wire Flammability Index (GWFI)	960	°C	IEC 60695-2-12
GWFI - thickness tested (3)	3	mm	-
Glow Wire Ignition Temperature (GWIT)	775	°C	IEC 60695-2-13
GWIT - thickness tested (1)	0.8	mm	-
Glow Wire Ignition Temperature (GWIT)	775	°C	IEC 60695-2-13
GWIT - thickness tested (2)	1.5	mm	-
Glow Wire Ignition Temperature (GWIT)	775	°C	IEC 60695-2-13
GWIT - thickness tested (3)	3	mm	-
Electrical properties			
ISO Data			
Comparative tracking index	400 / -	-	IEC 60112
Other properties			
dry / cond			
Density	1670 / -	kg/m ³	ISO 1183
Bulk density	700	kg/m ³	-
Test specimen production			
ISO Data			
Injection Molding, melt temperature	270	°C	ISO 294
Injection Molding, mold temperature	80	°C	ISO 294

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	2 - 6	h	-
Processing humidity	≤0.12	%	-
Melt temperature	265 - 285	°C	-
Mold temperature	80 - 100	°C	-

Characteristics**Processing**

Injection Molding

Special Characteristics

Flame retardant

Regional Availability

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