

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ISO Data</b>			
Melt flow index, MFI	8.3	g/10min	ISO 1133
Temperature	300	°C	-
Load	1.2	kg	-
Molding shrinkage, parallel	0.6	%	ISO 294-4, 2577
Molding shrinkage, normal	0.5	%	ISO 294-4, 2577
<b>ASTM Data</b>			
Melt Flow Index, MFI	8.3	g/10min	ASTM D 1238
Temperature	300	°C	-
Load	1.2	kg	-
Mold Shrinkage, MD	0.006	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.005	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	3620	MPa	ISO 527
Yield stress	60	MPa	ISO 527
Yield strain	5	%	ISO 527
Stress at break	45	MPa	ISO 527
Strain at break	10	%	ISO 527
Flexural modulus, 23°C	3620	MPa	ISO 178
Flexural strength	105	MPa	ISO 178
Charpy notched impact strength, +23°C	6 <sup>(1)</sup>	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength, -30°C	6 <sup>(1)</sup>	kJ/m <sup>2</sup>	ISO 179/1eA
Izod notched impact strength, +23°C	6 <sup>(1)</sup>	kJ/m <sup>2</sup>	ISO 180/1A
Izod notched impact strength	6 <sup>(1)</sup>	kJ/m <sup>2</sup>	ISO 180/1A
Temperature	-40	°C	-
Rockwell hardness	R 122	-	ISO 2039-2
<b>ASTM Data</b>			
Tensile Modulus	3835	MPa	ASTM D 638
Tensile Strength at Yield	63.8	MPa	ASTM D 638
Tensile Strength at Break	48	MPa	ASTM D 638
Elongation at Yield	5	%	ASTM D 638
Elongation at Break	15	%	ASTM D 638
Flexural Modulus	3475	MPa	ASTM D 790
Flexural Strength	105	MPa	ASTM D 790
Rockwell Hardness	R 122	-	ASTM D 785
Izod Impact notched, 1/8 in	88.3	J/m	ASTM D 256
Izod Impact notched, 1/4 in	68.7	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	58.9	J/m	ASTM D 256
Temperature	-30	°C	-

1: 4 mm

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	121	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	132	°C	ISO 75-1/-2
Vicat softening temperature, B	142	°C	ISO 306
Coeff. of linear therm. expansion, parallel	44	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	88	E-6/K	ISO 11359-1/-2
Burning behav. at 1.5 mm nom. thicken.	V-0	class	IEC 60695-11-10
Thickness tested	1.5	mm	-
Burning behav. 5V at thickness h	5VA	class	IEC 60695-11-20
Thickness tested	3.0	mm	-
<b>ASTM Data</b>			
UL 94 Flame rating	V-0	-	UL 94
Thickness tested	1.5	mm	-
Coefficient of Thermal Expansion, MD	44	E-6/K	ASTM D 696

Coefficient of Thermal Expansion, TD	<b>88</b>	E-6/K	ASTM D 696
DTUL @ 66 psi	<b>133<sup>[2]</sup></b>	°C	ASTM D 648
DTUL @ 264 psi	<b>127<sup>[2]</sup></b>	°C	ASTM D 648
Vicat Temperature	<b>136</b>	°C	ASTM D 1525

2: 6.4 mm

<b>Electrical properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Volume resistivity	<b>1E15</b>	Ohm*m	IEC 62631-3-1
Surface resistivity	<b>1E15</b>	Ohm	IEC 62631-3-2
Comparative tracking index	<b>212</b>	-	IEC 60112
<b>ASTM Data</b>			
Dielectric Strength, Short Time	<b>20</b>	kV/mm	ASTM D 149
Surface Resistivity	<b>1E15</b>	Ohm	ASTM D 257
Volume Resistivity	<b>1E17</b>	Ohm*cm	ASTM D 257

<b>Other properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Humidity absorption	<b>0.2</b>	%	Sim. to ISO 62
Density	<b>1250</b>	kg/m <sup>3</sup>	ISO 1183
Density	<b>1250</b>	kg/m <sup>3</sup>	ASTM D 792

<b>Processing Recommendation Injection Molding</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Pre-drying - Temperature	<b>100 - 120</b>	°C	-
Pre-drying - Time	<b>3 - 5</b>	h	-
Processing humidity	<b>≤0.02</b>	%	-
Melt temperature	<b>300 - 340</b>	°C	-
Mold temperature	<b>90 - 120</b>	°C	-
Zone 1	<b>270 - 300</b>	°C	-
Zone 2	<b>280 - 310</b>	°C	-
Zone 3	<b>290 - 330</b>	°C	-
Nozzle temperature	<b>290 - 330</b>	°C	-

**Characteristics**

**Processing**

Injection Molding

**Special Characteristics**

Flame retardant, Halogen-free

**Applications**

General Purpose

**Regional Availability**

North America, Europe, Asia Pacific, South and Central America