

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ISO Data</b>			
Melt flow index, MFI	18	g/10min	ISO 1133
Temperature	280	°C	-
Load	5	kg	-
Molding shrinkage, parallel	0.4	%	ISO 294-4, 2577
Molding shrinkage, normal	0.5	%	ISO 294-4, 2577
<b>ASTM Data</b>			
Melt Flow Index, MFI	18	g/10min	ASTM D 1238
Temperature	280	°C	-
Load	5	kg	-
Mold Shrinkage, MD	0.004	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	7280	MPa	ISO 527
Yield stress	113	MPa	ISO 527
Stress at break	113	MPa	ISO 527
Strain at break	2.3	%	ISO 527
Flexural modulus, 23°C	5960	MPa	ISO 178
Flexural strength	160	MPa	ISO 178
Charpy notched impact strength, +23°C	8 <sup>[1]</sup>	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength, -30°C	5.9 <sup>[1]</sup>	kJ/m <sup>2</sup>	ISO 179/1eA
Izod notched impact strength, +23°C	7.8 <sup>[1]</sup>	kJ/m <sup>2</sup>	ISO 180/1A
Izod notched impact strength	6.2 <sup>[1]</sup>	kJ/m <sup>2</sup>	ISO 180/1A
Temperature	-30	°C	-
Rockwell hardness	R 123	-	ISO 2039-2
<b>ASTM Data</b>			
Tensile Modulus	7397	MPa	ASTM D 638
Tensile Strength at Break	110	MPa	ASTM D 638
Elongation at Break	2.6	%	ASTM D 638
Flexural Modulus	5150	MPa	ASTM D 790
Flexural Strength	152	MPa	ASTM D 790
Rockwell Hardness	R 123	-	ASTM D 785
Izod Impact notched, 1/8 in	82.4	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	52	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	139 <sup>[2]</sup>	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	146 <sup>[2]</sup>	°C	ISO 75-1/-2
Vicat softening temperature, B	147	°C	ISO 306
Coeff. of linear therm. expansion, parallel	36	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	82	E-6/K	ISO 11359-1/-2
Burning behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	0.8	mm	-
<b>ASTM Data</b>			
UL 94 Flame rating	HB	-	UL 94
Thickness tested	0.8	mm	-
Coefficient of Thermal Expansion, MD	36	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	82	E-6/K	ASTM D 696
DTUL @ 66 psi	146	°C	ASTM D 648
DTUL @ 264 psi	140	°C	ASTM D 648
Vicat Temperature	147	°C	ASTM D 1525

2: 4 mm

Electrical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Volume resistivity	<b>1E14</b>	Ohm*m	IEC 62631-3-1
Surface resistivity	<b>1E14</b>	Ohm	IEC 62631-3-2
<b>ASTM Data</b>			
Dielectric Strength, Short Time	<b>29</b>	kV/mm	ASTM D 149
Surface Resistivity	<b>1E14</b>	Ohm	ASTM D 257
Volume Resistivity	<b>1E16</b>	Ohm*cm	ASTM D 257
<b>Other Standards<sup>S)</sup></b>			
Comparative tracking index	<b>137</b>	-	UL 746A

S: These properties are reported by the producer according standards that are different to our defaults.

Other properties	Value	Unit	Test Standard
Humidity absorption	<b>0.1</b>	%	Sim. to ISO 62
Density	<b>1180</b>	kg/m <sup>3</sup>	ISO 1183
Density	<b>1180</b>	kg/m <sup>3</sup>	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	<b>80 - 100</b>	°C	-
Pre-drying - Time	<b>4 - 5</b>	h	-
Processing humidity	<b>≤0.02</b>	%	-
Melt temperature	<b>280 - 320</b>	°C	-
Mold temperature	<b>70 - 110</b>	°C	-
Zone 1	<b>260 - 300</b>	°C	-
Zone 2	<b>270 - 310</b>	°C	-
Zone 3	<b>270 - 310</b>	°C	-
Nozzle temperature	<b>270 - 310</b>	°C	-

## Characteristics

### Processing

Injection Molding

### Applications

General Purpose

### Regional Availability

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