

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ASTM Data</b>			
Mold Shrinkage, MD	0.004	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.008	mm/mm	ASTM D 955
<b>Mechanical properties</b>			
	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	12200 / -	MPa	ISO 527
Yield stress	225 / -	MPa	ISO 527
Strain at break	3 / -	%	ISO 527
Flexural modulus, 23°C	10300 / -	MPa	ISO 178
Charpy impact strength, +23°C	82 / -	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, +23°C	11 / -	kJ/m <sup>2</sup>	ISO 179/1eA
Izod notched impact strength, +23°C	11 / -	kJ/m <sup>2</sup>	ISO 180/1A
<b>ASTM Data</b>			
Tensile Modulus	13100 / 13100	MPa	ASTM D 638
Tensile Strength at Break	221 / 193	MPa	ASTM D 638
Elongation at Break	2.5 / 2.1	%	ASTM D 638
Compressive Strength	276 / 247	MPa	ASTM D 695
Flexural Modulus	10300 / 10300	MPa	ASTM D 790
Rockwell Hardness	R125 /	-	ASTM D 785
Izod Impact notched, 1/8 in	85 / 75	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	1000 / -	J/m	ASTM D 256
<b>Thermal properties</b>			
	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
Melting temperature, 10°C/min	310 / *	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	277 / *	°C	ISO 75-1/-2
<b>ASTM Data</b>			
UL 94 Flame rating	HB	-	UL 94
Thickness tested	3.2	mm	-
Melting Temperature	310	°C	ASTM D 3418
<b>Electrical properties</b>			
	dry / cond	Unit	Test Standard
<b>ASTM Data</b>			
Dielectric Strength, Short Time	21 / 21	kV/mm	ASTM D 149
Dissipation Factor, 60 Hz	0.005 / 0.009	-	ASTM D 150
Dissipation Factor, 1 MHz	0.017 / 0.022	-	ASTM D 150
Dielectric Constant, 60 Hz	4.4 / 4.7	-	ASTM D 150
Dielectric Constant, 1 MHz	4.2 / 4.3	-	ASTM D 150
Volume Resistivity	0 / >1E15	Ohm*cm	ASTM D 257
Arc Resistance	140 / 120	s	ASTM D 495
<b>Optical properties</b>			
	Value	Unit	Test Standard
<b>ASTM Data</b>			
Light Transmittance	35	%	ASTM D 1003
<b>Other properties</b>			
	dry / cond	Unit	Test Standard
Density	1440 / -	kg/m <sup>3</sup>	ISO 1183
Water Absorption, 24hr	0.21	%	ASTM D 570
<b>Processing Recommendation Injection Molding</b>			
	Value	Unit	Test Standard
Pre-drying - Temperature	120	°C	-
Pre-drying - Time	4	h	-
Processing humidity	≤0.045	%	-
Melt temperature	321 - 343	°C	-
Mold temperature	135	°C	-

Feed temperature	<b>79</b>	°C	-
Zone 1	<b>304 - 318</b>	°C	-
Zone 2	<b>316 - 329</b>	°C	-

**Characteristics****Processing**

Injection Molding

**Delivery form**

Pellets, Black, Natural Color

**Special Characteristics**

Heat stabilized or stable to heat

**Features**

Creep Resistance

**Chemical Resistance**

General Chemical Resistance, Oil Resistance

**Applications**

Automotive, IT / Business Machine, Electrical and Electronical, General Purpose

**Regional Availability**

North America, Europe, Asia Pacific