

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ASTM Data</b>			
Melt Flow Index, MFI	0.7	g/10min	ASTM D 1238
Temperature	400	°C	-
Load	2.16	kg	-
Mold Shrinkage, MD	0.003	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.015	mm/mm	ASTM D 955
<b>Mechanical properties</b>			
<b>ISO Data</b>			
Tensile Modulus	11400	MPa	ISO 527
Yield stress	165	MPa	ISO 527
Nominal strain at break	2.7	%	ISO 527
Flexural modulus, 23°C	10700	MPa	ISO 178
Izod impact strength, +23°C	56	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C	13	kJ/m <sup>2</sup>	ISO 180/1A
<b>ASTM Data</b>			
Tensile Modulus	10500	MPa	ASTM D 638
Tensile Strength	158	MPa	ASTM D 638
Tensile Strength at Yield	158	MPa	ASTM D 638
Elongation at Break	2.7	%	ASTM D 638
Compressive Strength	169	MPa	ASTM D 695
Flexural Modulus	10300	MPa	ASTM D 790
Flexural Strength	271	MPa	ASTM D 790
Rockwell Hardness	M 100	-	ASTM D 785
Shore D Hardness	91	-	ASTM D 2240
Izod Impact notched, 1/8 in	110	J/m	ASTM D 256
<b>Thermal properties</b>			
<b>ISO Data</b>			
Burning behav. at 1.5 mm nom. thickn.	V-0	class	IEC 60695-11-10
Thickness tested	1.6	mm	-
<b>ASTM Data</b>			
UL 94 Flame rating	V-0	-	UL 94
Thickness tested	1.6	mm	-
Melting Temperature	340	°C	ASTM D 3418
Glass Transition Temperature	150	°C	ASTM E 1356
<b>Electrical properties</b>			
<b>ASTM Data</b>			
Dielectric Strength, Short Time	17	kV/mm	ASTM D 149
Dissipation Factor, 60 Hz	0.001	-	ASTM D 150
Dissipation Factor, 1 MHz	0.003	-	ASTM D 150
Dielectric Constant, 60 Hz	3.44	-	ASTM D 150
Dielectric Constant, 1 MHz	3.41	-	ASTM D 150
Surface Resistivity	>1E15	Ohm	ASTM D 257
Volume Resistivity	>1E15	Ohm*cm	ASTM D 257
<b>Other properties</b>			
Water Absorption, 24hr	0.1	%	ASTM D 570
Density	1530	kg/m <sup>3</sup>	ASTM D 792
<b>Processing Recommendation Injection Molding</b>			
Pre-drying - Temperature	150	°C	-
Pre-drying - Time	4	h	-
Mold temperature	175 - 205	°C	-
Zone 1	365	°C	-
Zone 2	370	°C	-

Zone 3	<b>375</b>	°C	-
Nozzle temperature	<b>380</b>	°C	-

**Characteristics****Processing**

Injection Molding, Profile Extrusion

**Delivery form**

Pellets, Powder, Black

**Special Characteristics**

Flame retardant, Heat stabilized or stable to heat, Sterilizable, Ethylene Oxide (EtO) Sterilization, Steam sterilization, Gamma irradiation sterilization, Electron beam (e-beam) sterilization

**Features**

Fatigue Resistance

**Chemical Resistance**

Acid Resistance, Alkali Resistance, General Chemical Resistance, Oil Resistance, Radiation Resistance

**Certifications**

Medical Grade, Biocompatibility ISO 10993

**Applications**

Aircraft and Aerospace, Chemical Process, Electrical and Electronical, Medical

**Regional Availability**

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