

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ASTM Data</b>			
Melt Flow Index, MFI	36	g/10min	ASTM D 1238
Temperature	400	°C	-
Load	2.16	kg	-
Mold Shrinkage, MD	0.015	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.016	mm/mm	ASTM D 955
<b>Mechanical properties</b>			
<b>ISO Data</b>			
Tensile Modulus	4000	MPa	ISO 527
Yield stress	102	MPa	ISO 527
Yield strain	5	%	ISO 527
Strain at break	15	%	ISO 527
Flexural modulus, 23°C	3900	MPa	ISO 178
Izod impact strength, +23°C	N	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C	4.9	kJ/m <sup>2</sup>	ISO 180/1A
<b>ASTM Data</b>			
Tensile Modulus	3700	MPa	ASTM D 638
Tensile Strength	100	MPa	ASTM D 638
Elongation at Yield	5.2	%	ASTM D 638
Elongation at Break	15	%	ASTM D 638
Compressive Strength	123	MPa	ASTM D 695
Flexural Modulus	3800	MPa	ASTM D 790
Flexural Strength	153	MPa	ASTM D 790
Rockwell Hardness	M 102	-	ASTM D 785
Izod Impact notched, 1/8 in	53	J/m	ASTM D 256
<b>Thermal properties</b>			
<b>ISO Data</b>			
Burning behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested	3.0	mm	-
<b>ASTM Data</b>			
Melting Temperature	343	°C	ASTM D 3418
Glass Transition Temperature	147	°C	ASTM E 1356
<b>Electrical properties</b>			
<b>ASTM Data</b>			
Dielectric Strength, Short Time	15	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	3.1	-	ASTM D 150
Dielectric Constant, 1 MHz	3.07	-	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	1300	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	355	°C	-
Zone 2	365	°C	-
Zone 3	370	°C	-
Nozzle temperature	375	°C	-

**Characteristics****Processing**

Injection Molding, Fiber Extrusion, Film Extrusion, Profile Extrusion, Wire/Cable Extrusion, Blow Molding, Thermoforming

**Delivery form**

Pellets, Black

**Special Characteristics**

Flame retardant, High impact or impact modified, Heat stabilized or stable to heat, Sterilizable, Steam sterilization, Gamma irradiation sterilization, Electron beam (e-beam) sterilization

**Features**

Ductile, Fatigue Resistance

**Chemical Resistance**

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

**Certifications**

Medical Grade, Biocompatibility ISO 10993, US Pharmacopeia Class VI Approved

**Applications**

Chemical Process, Electrical and Electronical, Medical

**Regional Availability**

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