

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
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
Mechanical properties			
ISO Data			
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 ²	ISO 180/1U
Izod notched impact strength, +23°C	4.9	kJ/m ²	ISO 180/1A
ASTM Data			
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
Izod Impact unnotched, 1/8 in	N	J/m	ASTM D 256
Thermal properties			
ASTM Data			
UL 94 Flame rating	V-0	-	UL 94
Thickness tested	3	mm	-
Melting Temperature	343	°C	ASTM D 3418
Glass Transition Temperature	147	°C	ASTM E 1356
Electrical properties			
ASTM Data			
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
Other properties			
Water Absorption, 24hr	0.1	%	ASTM D 570
Density	1300	kg/m ³	ASTM D 792
Processing Recommendation Injection Molding			
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

Delivery form

Pellets, Natural Color

Special Characteristics

Flame retardant, High impact or impact modified, Heat stabilized or stable to heat, 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

Food contact, 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