

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	25	g/10min	ASTM D 1238
Temperature	400	°C	-
Load	2.16	kg	-
Mold Shrinkage, MD	0.008	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.011	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	3200	MPa	ISO 527
Yield stress	89	MPa	ISO 527
Yield strain	5.7	%	ISO 527
Strain at break	40	%	ISO 527
Flexural modulus, 23°C	3200	MPa	ISO 178
Flexural strength	127	MPa	ISO 178
Izod impact strength, +23°C	N	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C	6.6	kJ/m ²	ISO 180/1A

ASTM Data			
Tensile Modulus	3000	MPa	ASTM D 638
Tensile Strength	87	MPa	ASTM D 638
Elongation at Yield	6.2	%	ASTM D 638
Elongation at Break	40	%	ASTM D 638
Compressive Strength	112	MPa	ASTM D 695
Flexural Modulus	3100	MPa	ASTM D 790
Flexural Strength	124	MPa	ASTM D 790
Rockwell Hardness	M 94	-	ASTM D 785
Izod Impact notched, 1/8 in	69	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	N	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ASTM Data			
UL 94 Flame rating	V-0	-	UL 94
Thickness tested	0.8	mm	-
Coefficient of Thermal Expansion, MD	47	E-6/K	ASTM D 696
DTUL @ 264 psi	190 ^[ann.]	°C	ASTM D 648
Melting Temperature	345	°C	ASTM D 3418
Glass Transition Temperature	158	°C	ASTM E 1356

ann.: annealed

Electrical properties	Value	Unit	Test Standard
ASTM Data			
Dielectric Strength, Short Time	16	kV/mm	ASTM D 149
Dissipation Factor, 60 Hz	0.001	-	ASTM D 150
Dissipation Factor, 1 MHz	0.004	-	ASTM D 150
Dielectric Constant, 60 Hz	3.1	-	ASTM D 150
Dielectric Constant, 1 MHz	3.1	-	ASTM D 150
Surface Resistivity	1.9E17	Ohm	ASTM D 257
Volume Resistivity	5E17	Ohm*cm	ASTM D 257

Other properties	Value	Unit	Test Standard
Water Absorption, 24hr	0.2	%	ASTM D 570
Density	1290	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	150	°C	-
Pre-drying - Time	4	h	-

Melt temperature	365 - 390	°C	-
Mold temperature	150 - 180	°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, Natural Color

Special Characteristics

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

Features

Ductile, Fatigue Resistance

Chemical Resistance

General Chemical Resistance, Environmental Stress Crack Resistance, Oil Resistance, Radiation Resistance

Certifications

Medical Grade, Biocompatibility ISO 10993, RoHS compliant

Applications

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

Regional Availability

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