

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	14	g/10min	ASTM D 1238
Temperature	400	°C	-
Load	2.16	kg	-
Mold Shrinkage, MD	0.002	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.014	mm/mm	ASTM D 955
Mechanical properties			
ISO Data			
Tensile Modulus	11200	MPa	ISO 527
Yield stress	174	MPa	ISO 527
Strain at break	2.8	%	ISO 527
Flexural modulus, 23°C	10600	MPa	ISO 178
Izod impact strength, +23°C	62	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C	11	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	10800	MPa	ASTM D 638
Tensile Strength at Yield	162	MPa	ASTM D 638
Elongation at Break	2.8	%	ASTM D 638
Compressive Strength	183	MPa	ASTM D 695
Flexural Modulus	10500	MPa	ASTM D 790
Flexural Strength	260	MPa	ASTM D 790
Rockwell Hardness	M 105	-	ASTM D 785
Izod Impact notched, 1/8 in	96	J/m	ASTM D 256
Thermal properties			
ISO Data			
Burning behav. at 1.5 mm nom. thickn.	V-0	class	IEC 60695-11-10
Thickness tested	1.6	mm	-
Burning behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested	0.8	mm	-
ASTM Data			
Melting Temperature	343	°C	ASTM D 3418
Glass Transition Temperature	147	°C	ASTM E 1356
Electrical properties			
ASTM Data			
Dielectric Strength, Short Time	16	kV/mm	ASTM D 149
Dissipation Factor, 60 Hz	0.002	-	ASTM D 150
Dissipation Factor, 1 MHz	0.004	-	ASTM D 150
Dielectric Constant, 60 Hz	3.53	-	ASTM D 150
Dielectric Constant, 1 MHz	3.49	-	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	1530	kg/m ³	ASTM D 792
Processing Recommendation Injection Molding			
Pre-drying - Temperature	150	°C	-
Pre-drying - Time	4	h	-
Mold temperature	177 - 204	°C	-
Zone 1	365	°C	-
Zone 2	371	°C	-
Zone 3	377	°C	-
Nozzle temperature	382	°C	-

Characteristics

Processing

Injection Molding, Profile Extrusion

Delivery form

Pellets, Black

Special Characteristics

Flame retardant, U.V. stabilized or stable to weather, 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

Chemical Process, Electrical and Electronical, Medical

Regional Availability

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