

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	9	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	0.014	mm/mm	ASTM D 955
Mechanical properties			
Value	Unit	Test Standard	
ISO Data			
Tensile Modulus	10400	MPa	ISO 527
Yield stress	162	MPa	ISO 527
Strain at break	2.9	%	ISO 527
Flexural modulus, 23°C	9700	MPa	ISO 178
Izod impact strength, +23°C	64	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C	12	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	9900	MPa	ASTM D 638
Tensile Strength	156	MPa	ASTM D 638
Elongation at Break	2.9	%	ASTM D 638
Compressive Strength	168	MPa	ASTM D 695
Flexural Modulus	9400	MPa	ASTM D 790
Flexural Strength	234	MPa	ASTM D 790
Rockwell Hardness	M 101	-	ASTM D 785
Izod Impact notched, 1/8 in	110	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	960	J/m	ASTM D 256
Thermal properties			
Value	Unit	Test Standard	
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-1	class	IEC 60695-11-10
Thickness tested	0.8	mm	-
ASTM Data			
UL 94 Flame rating	V-0	-	UL 94
Thickness tested	1.6	mm	-
Coefficient of Thermal Expansion, MD	17	E-6/K	ASTM D 696
DTUL @ 264 psi	213	°C	ASTM D 648
Melting Temperature	340	°C	ASTM D 3418
Glass Transition Temperature	158	°C	ASTM E 1356
Electrical properties			
Value	Unit	Test Standard	
ASTM Data			
Dielectric Strength, Short Time	17	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	3.61	-	ASTM D 150
Dielectric Constant, 1 MHz	3.58	-	ASTM D 150
Surface Resistivity	>1E15	Ohm	ASTM D 257
Volume Resistivity	>1E15	Ohm*cm	ASTM D 257
Other properties			
Value	Unit	Test Standard	
Water Absorption, 24hr	0.2	%	ASTM D 570
Density	1520	kg/m ³	ASTM D 792
Processing Recommendation Injection Molding			
Value	Unit	Test Standard	
Pre-drying - Temperature	149	°C	-
Pre-drying - Time	4	h	-

Melt temperature	366 - 388	°C	-
Mold temperature	160 - 190	°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, Heat stabilized or stable to heat, Electron beam (e-beam) sterilization

Features

Fatigue Resistance

Chemical Resistance

General Chemical Resistance, Radiation Resistance

Certifications

Medical Grade, Biocompatibility ISO 10993

Applications

Aircraft and Aerospace, Electrical and Electronical, Medical

Regional Availability

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