

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	17	g/10min	ASTM D 1238
Mold Shrinkage, MD	0.007	mm/mm	ASTM D 955
Mechanical properties			
ASTM Data			
Tensile Modulus	2340	MPa	ASTM D 638
Tensile Strength at Yield	69.6	MPa	ASTM D 638
Tensile Strength at Break	69.6	MPa	ASTM D 638
Elongation at Yield	7.2	%	ASTM D 638
Elongation at Break	60	%	ASTM D 638
Compressive Modulus	1730	MPa	ASTM D 695
Compressive Strength	98.9	MPa	ASTM D 695
Flexural Modulus	2410	MPa	ASTM D 790
Izod Impact notched, 1/8 in	690	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	N	J/m	ASTM D 256
Thermal properties			
ISO Data			
Burning behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested	0.8	mm	-
Yellow Card available	yes	-	-
ASTM Data			
UL 94 Flame rating	V-0	-	UL 94
Thickness tested	0.75	mm	-
Coefficient of Thermal Expansion, MD	56	E-6/K	ASTM D 696
DTUL @ 66 psi	214	°C	ASTM D 648
DTUL @ 264 psi	207	°C	ASTM D 648
Glass Transition Temperature	220	°C	ASTM E 1356
Thermal Conductivity, solid state	0.0504	W/(m K)	ASTM C 177
Limiting Oxygen Index	38	%	ASTM D 2863
Electrical properties			
ASTM Data			
Dielectric Strength, Step-by-Step	14	kV/mm	ASTM D 149
Dielectric Constant, 60 Hz	3.44	-	ASTM D 150
Volume Resistivity	>1E15	Ohm*cm	ASTM D 257
Optical properties			
ASTM Data			
Index of Refraction	1.67	-	ASTM D 542
Other properties			
Water Absorption, 24hr	0.37	%	ASTM D 570
Density	1300	kg/m ³	ASTM D 792
Processing Recommendation Injection Molding			
Pre-drying - Temperature	149	°C	-
Pre-drying - Time	2.5	h	-
Processing humidity	≤0.05	%	-
Melt temperature	343 - 388	°C	-
Mold temperature	138 - 163	°C	-
Zone 1	321	°C	-
Zone 2	349	°C	-
Zone 3	349	°C	-
Back pressure	0.345 - 0.689	MPa	-

Characteristics**Processing**

Injection Molding, Film Extrusion, Profile Extrusion, Sheet Extrusion, Blow Molding, Thermoforming

Delivery form

Pellets, Black

Special Characteristics

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

Features

Thermal Stability

Chemical Resistance

Acid Resistance, Alkali Resistance, General Chemical Resistance, Environmental Stress Crack Resistance, Hydrolytically Stable, Radiation Resistance

Certifications

Drinking water contact, Drinking water contact NSF 61, Medical Grade, Biocompatibility ISO 10993

Applications

General Purpose, Medical

Regional Availability

North America, Europe, Asia Pacific, South and Central America