

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ASTM Data</b>			
Melt Flow Index, MFI	11	g/10min	ASTM D 1238
Temperature	400	°C	-
Load	2.16	kg	-
Mold Shrinkage, MD	0.001	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.015	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	25400	MPa	ISO 527
Stress at break	241	MPa	ISO 527
Strain at break	1.7	%	ISO 527
Flexural modulus, 23°C	21800	MPa	ISO 178
Izod impact strength, +23°C	43	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C	8.5	kJ/m <sup>2</sup>	ISO 180/1A
<b>ASTM Data</b>			
Tensile Modulus	23900	MPa	ASTM D 638
Tensile Strength at Break	236	MPa	ASTM D 638
Elongation at Break	1.7	%	ASTM D 638
Compressive Strength	188	MPa	ASTM D 695
Flexural Modulus	21400	MPa	ASTM D 790
Flexural Strength	348	MPa	ASTM D 790
Rockwell Hardness	M 106	-	ASTM D 785
Izod Impact notched, 1/8 in	64	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	640	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Burning behav. at 1.5 mm nom. thickn.	V-0	class	IEC 60695-11-10
Thickness tested	1.6	mm	-
<b>ASTM Data</b>			
UL 94 Flame rating	V-0	-	UL 94
Thickness tested	0.8	mm	-
DTUL @ 264 psi	315 <sup>[ann.]</sup>	°C	ASTM D 648
Melting Temperature	343	°C	ASTM D 3418
Glass Transition Temperature	147	°C	ASTM E 1356
Thermal Conductivity, solid state	0.37	W/(m K)	ASTM C 177
<b>Other Standards<sup>[5]</sup></b>			
Coefficient of Thermal Expansion, MD	7.2	E-6/K	ASTM E 831
Specific Heat	1310 <sup>[1]</sup>	J/(kg K)	DSC

1: 50°C S: These properties are reported by the producer according standards that are different to our defaults. ann.: annealed

Other properties	Value	Unit	Test Standard
Water Absorption, 24hr	0.1	%	ASTM D 570
Density	1410	kg/m <sup>3</sup>	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	150	°C	-
Pre-drying - Time	4	h	-
Mold temperature	175 - 205	°C	-
Zone 1	365	°C	-
Zone 2	370	°C	-
Zone 3	375	°C	-
Nozzle temperature	380	°C	-

**Characteristics****Processing**

Injection Molding, Profile Extrusion

**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**

Fatigue Resistance

**Chemical Resistance**

Acid Resistance, Alkali Resistance, General Chemical Resistance, Oil Resistance, Radiation Resistance

**Certifications**

Medical Grade, Biocompatibility ISO 10993

**Applications**

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

**Regional Availability**

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