

<b>Processing/Physical Characteristics</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Melt flow index, MFI	15	g/10min	ISO 1133
Temperature	300	°C	-
Load	1.2	kg	-
Molding shrinkage, parallel	0.6	%	ISO 294-4, 2577
<b>ASTM Data</b>			
Melt Flow Index, MFI	15	g/10min	ASTM D 1238
Temperature	300	°C	-
Load	1.2	kg	-
Mold Shrinkage, MD	0.006	mm/mm	ASTM D 955
<b>Mechanical properties</b>			
<b>ISO Data</b>			
Tensile Modulus	2300	MPa	ISO 527
Yield stress	62	MPa	ISO 527
Yield strain	6	%	ISO 527
Stress at break	68	MPa	ISO 527
Strain at break	130	%	ISO 527
Flexural modulus, 23°C	2400	MPa	ISO 178
Flexural strength	97	MPa	ISO 178
Charpy notched impact strength, +23°C	25	kJ/m <sup>2</sup>	ISO 179/1eA
Izod notched impact strength, +23°C	75	kJ/m <sup>2</sup>	ISO 180/1A
<b>ASTM Data</b>			
Tensile Modulus	2206	MPa	ASTM D 638
Tensile Strength at Yield	62.1	MPa	ASTM D 638
Tensile Strength at Break	68.3	MPa	ASTM D 638
Elongation at Yield	6	%	ASTM D 638
Elongation at Break	130	%	ASTM D 638
Flexural Modulus	2413	MPa	ASTM D 790
Flexural Strength	96.5	MPa	ASTM D 790
Rockwell Hardness	R 118	-	ASTM D 785
Izod Impact notched, 1/8 in	747	J/m	ASTM D 256
<b>Thermal properties</b>			
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	120	°C	ISO 75-1/-2
Vicat softening temperature, B	138	°C	ISO 306
<b>ASTM Data</b>			
Coefficient of Thermal Expansion, MD	68.4	E-6/K	ASTM D 696
DTUL @ 66 psi	139 <sup>[ann.]</sup>	°C	ASTM D 648
DTUL @ 264 psi	122	°C	ASTM D 648
Vicat Temperature	143	°C	ASTM D 1525
ann.: annealed			
<b>Electrical properties</b>			
<b>ISO Data</b>			
Electric strength	17	kV/mm	IEC 60243-1
<b>ASTM Data</b>			
Dielectric Strength, Short Time	16.5	kV/mm	ASTM D 149
Dissipation Factor, 1 MHz	0.002	-	ASTM D 150
Dielectric Constant, 60 Hz	3	-	ASTM D 150
Dielectric Constant, 1 MHz	3	-	ASTM D 150
Volume Resistivity	2E17	Ohm*cm	ASTM D 257
<b>Optical properties</b>			
<b>ASTM Data</b>			
Haze	2	%	ASTM D 1003

Light Transmittance	<b>85</b>	%	ASTM D 1003
Index of Refraction	<b>1.59</b>	-	ASTM D 542

<b>Other properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Water absorption	<b>0.12</b>	%	Sim. to ISO 62
Humidity absorption	<b>0.15</b>	%	Sim. to ISO 62
Density	<b>1200</b>	kg/m <sup>3</sup>	ISO 1183
Water Absorption, 24hr	<b>0.15</b>	%	ASTM D 570
Density	<b>1200</b>	kg/m <sup>3</sup>	ASTM D 792

<b>Processing Recommendation Injection Molding</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Pre-drying - Temperature	<b>120</b>	°C	-
Pre-drying - Time	<b>4</b>	h	-
Melt temperature	<b>275 - 295</b>	°C	-
Mold temperature	<b>70 - 90</b>	°C	-

**Characteristics**

**Processing**

Injection Molding

**Additives**

Release agent

**Special Characteristics**

Transparent, Sterilizable, Gamma irradiation sterilization, Electron beam (e-beam) sterilization

**Chemical Resistance**

Radiation Resistance

**Certifications**

Medical Grade, Biocompatibility ISO 10993

**Applications**

Medical

**Regional Availability**

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