

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
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
ASTM Data			
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

Mechanical properties	Value	Unit	Test Standard
ISO Data			
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	150	%	ISO 527
Flexural modulus, 23°C	2400	MPa	ISO 178
Flexural strength	98	MPa	ISO 178
Charpy notched impact strength, +23°C	25	kJ/m ²	ISO 179/1eA
Izod impact strength, +23°C	N	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C	75	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	2210	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	150	%	ASTM D 638
Flexural Modulus	2410	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	750	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	N	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	120	°C	ISO 75-1/-2
Vicat softening temperature, B	143	°C	ISO 306
ASTM Data			
Coefficient of Thermal Expansion, MD	68	E-6/K	ASTM D 696
DTUL @ 66 psi	139^[ann.]	°C	ASTM D 648
DTUL @ 264 psi	122	°C	ASTM D 648
Vicat Temperature	148	°C	ASTM D 1525

ann.: annealed

Electrical properties	Value	Unit	Test Standard
ASTM Data			
Dielectric Strength, Short Time	17	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

Optical properties	Value	Unit	Test Standard
ASTM Data			
Haze	1	%	ASTM D 1003

Light Transmittance	89	%	ASTM D 1003
Index of Refraction	1.59	-	ASTM D 542

Other properties	Value	Unit	Test Standard
Humidity absorption	0.32	%	Sim. to ISO 62
Density	1200	kg/m ³	ISO 1183
Water Absorption, 24hr	0.15	%	ASTM D 570
Water Absorption, Equilibrium	0.32	%	ASTM D 570
Density	1200	kg/m ³	ASTM D 792

Characteristics

Delivery form

Natural Color

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

Europe, Near East/Africa