

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	16	cm ³ /10min	ISO 1133
Temperature	220	°C	-
Load	10	kg	-
Molding shrinkage, parallel	0.5	%	ISO 294-4, 2577
Molding shrinkage, normal	0.5	%	ISO 294-4, 2577
ASTM Data			
Melt Flow Index, MFI	5	g/10min	ASTM D 1238
Temperature	230	°C	-
Load	3.8	kg	-
Mold Shrinkage, MD	0.004	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.006	mm/mm	ASTM D 955
Mechanical properties			
ISO Data			
Tensile Modulus	2500	MPa	ISO 527
Yield stress	52	MPa	ISO 527
Yield strain	2	%	ISO 527
Strain at break	15	%	ISO 527
Flexural modulus, 23°C	2600	MPa	ISO 178
Charpy impact strength, -30°C	70	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	11	kJ/m ²	ISO 179/1eA
Izod notched impact strength, +23°C	12	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	2620	MPa	ASTM D 638
Tensile Strength at Yield	48.3	MPa	ASTM D 638
Flexural Modulus	2689	MPa	ASTM D 790
Flexural Strength	75.8	MPa	ASTM D 790
Rockwell Hardness	112 R	-	ASTM D 785
Izod Impact notched, 1/8 in	214	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	48	J/m	ASTM D 256
Temperature	-40	°C	-
Thermal properties			
ISO Data			
Vicat softening temperature, B	97	°C	ISO 306
Coeff. of linear therm. expansion, normal	80	E-6/K	ISO 11359-1/-2
Burning behav. at 1.5 mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	1.6	mm	-
Yellow Card available	yes	-	-
ASTM Data			
Coefficient of Thermal Expansion, MD	81	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	81	E-6/K	ASTM D 696
Vicat Temperature	107	°C	ASTM D 1525
Electrical properties			
ISO Data			
Volume resistivity	1E13	Ohm*m	IEC 62631-3-1
Surface resistivity	1E15	Ohm	IEC 62631-3-2
Other properties			
Density	1060	kg/m ³	ASTM D 792

Characteristics

Processing

Injection Molding

Certifications

Food contact, Food approval 10/2011, Food approval FDA 21 CFR, Medical Grade, Biocompatibility ISO 10993, US Pharmacopeia Class VI Approved, Drug Master File, Long term supply assurance

Applications

Medical

Regional Availability

North America, Europe, Asia Pacific