

Product Texts

- polycarbonate
- MVR (300 °C/1.2 kg) 8.0 cm³/10 min
- low viscosity
- 20 % glass fiber reinforced
- biocompatible according to many ISO 10993-1 test requirements
- suitable for medical devices

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
^[C] Melt volume-flow rate, MVR	8	cm ³ /10min	ISO 1133
Temperature	300	°C	-
Load	1.2	kg	-
^[C] Molding shrinkage, parallel	0.3	%	ISO 294-4, 2577
^[C] Molding shrinkage, normal	0.5	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	5800	MPa	ISO 527
Yield stress	105	MPa	ISO 527
Yield strain	3	%	ISO 527
Nominal strain at break	3.3	%	ISO 527
Flexural modulus, 23°C	6000	MPa	ISO 178
Flexural strength	172	MPa	ISO 178
Izod notched impact strength, +23°C	12	kJ/m ²	ISO 180/1A
Izod notched impact strength	11	kJ/m ²	ISO 180/1A
Temperature	-30	°C	-

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
ISO Data			
^[C] Temp. of deflection under load, 1.80 MPa	141	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 0.45 MPa	146	°C	ISO 75-1/-2
^[C] Vicat softening temperature, B	149	°C	ISO 306
^[C] Coeff. of linear therm. expansion, parallel	30	E-6/K	ISO 11359-1/-2
^[C] Coeff. of linear therm. expansion, normal	65	E-6/K	ISO 11359-1/-2
^[C] Burning Behav. at thickness h	V-1	class	IEC 60695-11-10
Thickness tested	3.0	mm	-

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
^[C] Water absorption	0.28	%	Sim. to ISO 62
^[C] Humidity absorption	0.11	%	Sim. to ISO 62
^[C] Density	1340	kg/m ³	ISO 1183

[C]: CAMPUS

Test specimen production	Value	Unit	Test Standard
ISO Data			
^[C] Injection Molding, melt temperature	300	°C	ISO 294
Injection Molding, mold temperature	110	°C	ISO 294
Injection Molding, injection velocity	200	mm/s	ISO 294

[C]: CAMPUS

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120	°C	-
Pre-drying - Time	4	h	-
Melt temperature	300	°C	-

Mold temperature

100

°C

-

Characteristics**Processing**

Injection Molding

Special Characteristics

Opaque

Certifications

Biocompatibility ISO 10993

Applications

Medical

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