

Product Texts

- MVR (300 °C/1.2 kg) 19 cm³/10 min
- medical devices
- suitable for sterilization with high-energy radiation
- biocompatible according to many ISO 10993-1 test requirements
- low viscosity
- transparent parts for medical devices

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
^[C] Melt volume-flow rate, MVR	19	cm³/10min	ISO 1133
Temperature	300	°C	-
Load	1.2	kg	-
^[C] Molding shrinkage, parallel	0.6	%	ISO 294-4, 2577
^[C] Molding shrinkage, normal	0.7	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	2400	MPa	ISO 527
^[C] Yield stress	67	MPa	ISO 527
^[C] Yield strain	6.1	%	ISO 527
^[C] Nominal strain at break	>50	%	ISO 527
^[C] Charpy impact strength, +23°C	N	kJ/m²	ISO 179/1eU
^[C] Puncture - maximum force, +23°C	5300	N	ISO 6603-2
^[C] Puncture - maximum force, -30°C	6200	N	ISO 6603-2
^[C] Puncture energy, +23°C	60	J	ISO 6603-2
^[C] Puncture energy, -30°C	70	J	ISO 6603-2

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
ISO Data			
^[C] Temp. of deflection under load, 1.80 MPa	122	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 0.45 MPa	134	°C	ISO 75-1/-2
^[C] Vicat softening temperature, B	141	°C	ISO 306
^[C] Coeff. of linear therm. expansion, parallel	65	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-2	class	IEC 60695-11-10
Thickness tested	0.4	mm	-

[C]: CAMPUS

Electrical properties	Value	Unit	Test Standard
ISO Data			
^[C] Volume resistivity	>1E13	Ohm*m	IEC 62631-3-1
^[C] Surface resistivity	>1E15	Ohm	IEC 62631-3-2

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
^[C] Water absorption	0.3	%	Sim. to ISO 62
^[C] Humidity absorption	0.12	%	Sim. to ISO 62
^[C] Density	1200	kg/m³	ISO 1183

[C]: CAMPUS

Test specimen production	Value	Unit	Test Standard
ISO Data			
^[C] Injection Molding, melt temperature	280	°C	ISO 294
Injection Molding, mold temperature	80	°C	ISO 294
Injection Molding, injection velocity	200	mm/s	ISO 294

[C]: CAMPUS

Characteristics**Special Characteristics**

Transparent, Sterilizable, Gamma irradiation sterilization

Applications

Medical

Certifications

Contains renewable resources, Biocompatibility ISO 10993, ISCC Plus

Regional Availability

North America, Europe, Asia Pacific, Near East/Africa