

Product Texts

- MVR (300 °C/1.2 kg) 12 cm³/10 min
- medical devices
- suitable for ETO and steam sterilization at 121 °C
- biocompatible according to many ISO 10993-1 test requirements
- medium viscosity
- easy release

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
^[C] Melt volume-flow rate, MVR	12	cm ³ /10min	ISO 1133
Temperature	300	°C	-
Load	1.2	kg	-
^[C] Molding shrinkage, parallel	0.7	%	ISO 294-4, 2577
^[C] Molding shrinkage, normal	0.8	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	2400	MPa	ISO 527
^[C] Yield stress	66	MPa	ISO 527
^[C] Yield strain	6.1	%	ISO 527
^[C] Nominal strain at break	>50	%	ISO 527
^[C] Tensile creep modulus, 1h	2200	MPa	ISO 899-1
^[C] Tensile creep modulus, 1000h	1900	MPa	ISO 899-1
^[C] Charpy impact strength, +23°C	N	kJ/m ²	ISO 179/1eU
^[C] Puncture - maximum force, +23°C	5400	N	ISO 6603-2
^[C] Puncture - maximum force, -30°C	6300	N	ISO 6603-2
^[C] Puncture energy, +23°C	60	J	ISO 6603-2
^[C] Puncture energy, -30°C	65	J	ISO 6603-2

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
ISO Data			
^[C] Glass transition temperature, 10°C/min	145	°C	ISO 11357-1/-2
^[C] Temp. of deflection under load, 1.80 MPa	124	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 0.45 MPa	137	°C	ISO 75-1/-2
^[C] Vicat softening temperature, B	144	°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	0.8	mm	-
^[C] Oxygen index	27	%	ISO 4589-1/-2

[C]: CAMPUS

Electrical properties	Value	Unit	Test Standard
ISO Data			
^[C] Relative permittivity, 100Hz	3.1	-	IEC 62631-2-1
^[C] Relative permittivity, 1MHz	3	-	IEC 62631-2-1
^[C] Dissipation factor, 100Hz	5	E-4	IEC 62631-2-1
^[C] Dissipation factor, 1MHz	95	E-4	IEC 62631-2-1
^[C] Volume resistivity	>1E13	Ohm*m	IEC 62631-3-1
^[C] Surface resistivity	>1E15	Ohm	IEC 62631-3-2
^[C] Electric strength	34	kV/mm	IEC 60243-1
^[C] Comparative tracking index	250	-	IEC 60112

[C]: CAMPUS

Optical properties	Value	Unit	Test Standard
ISO Data			
^[C] Luminous transmittance	89	%	ISO 13468-1, -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/m ³	ISO 1183
[C]: CAMPUS			

Test specimen production	Value	Unit	Test Standard
ISO Data			
^[C] Injection Molding, melt temperature	290	°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

Sterilizable, Ethylene Oxide (EtO) Sterilization, Steam sterilization

Certifications

Contains renewable resources, Biocompatibility ISO 10993, ISCC Plus

Applications

Medical

Regional Availability

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