

Product Texts

55 Shore D, Medium Viscosity, Medical grade, Food Contact Quality

ISO 18064 TPC-ET

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
^[C] Melt volume-flow rate, MVR	9	cm ³ /10min	ISO 1133
Temperature	230	°C	-
Load	2.16	kg	-

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
ISO Data			
^[C] Yield stress	14	MPa	ISO 527
^[C] Yield strain	20	%	ISO 527
^[C] Charpy impact strength, +23°C	N	kJ/m ²	ISO 179/1eU
^[C] Charpy impact strength, -30°C	N	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	N	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	25	kJ/m ²	ISO 179/1eA
^[C] Stress at 10% elongation	11	MPa	ISO 527
^[C] Stress at 100% elongation	14	MPa	ISO 527
^[C] Strain at break TPE	>300	%	ISO 527
^[C] Compression set at 70 °C, 24h	40	%	ISO 815

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
ISO Data			
^[C] Melting temperature, 10°C/min	207	°C	ISO 11357-1/-3
^[C] Vicat softening temperature, B	90	°C	ISO 306
^[C] Coeff. of linear therm. expansion, parallel	150	E-6/K	ISO 11359-1/-2
^[C] Coeff. of linear therm. expansion, normal	150	E-6/K	ISO 11359-1/-2
^[C] Burning Behav. at 1.5 mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	1.5	mm	-
Yellow Card available	yes	-	-

[C]: CAMPUS

Electrical properties	Value	Unit	Test Standard
ISO Data			
^[C] Relative permittivity, 100Hz	4.4	-	IEC 62631-2-1
^[C] Relative permittivity, 1MHz	4	-	IEC 62631-2-1
^[C] Dissipation factor, 1MHz	400	E-4	IEC 62631-2-1
^[C] Volume resistivity	1E11	Ohm*m	IEC 62631-3-1
^[C] Electric strength	21	kV/mm	IEC 60243-1

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
^[C] Water absorption	0.65	%	Sim. to ISO 62
^[C] Humidity absorption	0.2	%	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	235	°C	ISO 294
Injection Molding, mold temperature	35	°C	ISO 294
Injection Molding, injection velocity	500	mm/s	ISO 294

[C]: CAMPUS

Characteristics

Processing

Injection Molding, Film Extrusion, Profile Extrusion, Other Extrusion

Applications

Medical

Delivery form

Pellets

Regional Availability

North America, Europe, Asia Pacific

Certifications

Food contact, Medical Grade

Other text information

Injection molding

[Steel recommendations for molds screws and barrels](#)

[Trouble shooting guideline for injection molding](#)

Film extrusion

[Arnitel® Recommendations for Extrusion](#)

Other extrusion

[Arnitel® Recommendations for Extrusion](#)