

Product Texts

Injection Molding, Food Contact Quality

ISO 18064 TPC-ET

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
^[C] Melt volume-flow rate, MVR	31.5	cm ³ /10min	ISO 1133
Temperature	230	°C	-
Load	2.16	kg	-

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
ISO Data			
^[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	N	kJ/m ²	ISO 179/1eA
^[C] Tensile notched impact strength, +23°C	179	kJ/m ²	ISO 8256/1
^[C] Stress at 10% elongation	4	MPa	ISO 527
^[C] Stress at 100% elongation	8	MPa	ISO 527
^[C] Stress at 300% elongation	11.8	MPa	ISO 527
^[C] Stress at break TPE	16	MPa	ISO 527
^[C] Strain at break TPE	>300	%	ISO 527

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
ISO Data			
^[C] Melting temperature, 10°C/min	212	°C	ISO 11357-1/-3
^[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]: CAMPUS

Electrical properties	Value	Unit	Test Standard
ISO Data			
^[C] Relative permittivity, 100Hz	4.7	-	IEC 62631-2-1
^[C] Relative permittivity, 1MHz	4.4	-	IEC 62631-2-1
^[C] Dissipation factor, 100Hz	310	E-4	IEC 62631-2-1
^[C] Dissipation factor, 1MHz	810	E-4	IEC 62631-2-1
^[C] Volume resistivity	1E12	Ohm*m	IEC 62631-3-1
^[C] Electric strength	20	kV/mm	IEC 60243-1
^[C] Comparative tracking index	600	-	IEC 60112

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
^[C] Water absorption	7	%	Sim. to ISO 62
^[C] Humidity absorption	0.4	%	Sim. to ISO 62
^[C] Density	1160	kg/m ³	ISO 1183

[C]: CAMPUS

Characteristics

Processing

Injection Molding

Certifications

Food contact, Drinking water contact

Arnitel® PL380

TPC

Envalior

Delivery form

Pellets

Regional Availability

North America, Europe, Asia Pacific

Other text information

Injection molding

[Injection Molding Recommendations](#)

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

[Trouble shooting guideline for injection molding](#)