

Product Texts

Extrusion, Unreinforced, Food Contact Quality

ISO 1043 PBT

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
^[C] Melt volume-flow rate, MVR	8	cm ³ /10min	ISO 1133
Temperature	250	°C	-
Load	2.16	kg	-

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	2600	MPa	ISO 527
^[C] Yield stress	55	MPa	ISO 527
^[C] Yield strain	4	%	ISO 527
^[C] Nominal strain at break	>50	%	ISO 527
^[C] Charpy impact strength, +23°C	N	kJ/m ²	ISO 179/1eU
^[C] Charpy impact strength, -30°C	230	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	10	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	10	kJ/m ²	ISO 179/1eA
^[C] Puncture - maximum force, +23°C	3880	N	ISO 6603-2
^[C] Puncture - maximum force, -30°C	3930	N	ISO 6603-2
^[C] Puncture energy, +23°C	23	J	ISO 6603-2
^[C] Puncture energy, -30°C	16	J	ISO 6603-2

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
ISO Data			
^[C] Melting temperature, 10°C/min	225	°C	ISO 11357-1/-3
^[C] Temp. of deflection under load, 1.80 MPa	60	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 0.45 MPa	140	°C	ISO 75-1/-2
^[C] Coeff. of linear therm. expansion, parallel	130	E-6/K	ISO 11359-1/-2
^[C] Coeff. of linear therm. expansion, normal	130	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	-

[C]: CAMPUS

Electrical properties	Value	Unit	Test Standard
ISO Data			
^[C] Relative permittivity, 100Hz	3.4	-	IEC 62631-2-1
^[C] Relative permittivity, 1MHz	3.2	-	IEC 62631-2-1
^[C] Dissipation factor, 100Hz	15	E-4	IEC 62631-2-1
^[C] Dissipation factor, 1MHz	200	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	30	kV/mm	IEC 60243-1
^[C] Comparative tracking index	600	-	IEC 60112

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
^[C] Water absorption	0.5	%	Sim. to ISO 62
^[C] Humidity absorption	0.2	%	Sim. to ISO 62
^[C] Density	1300	kg/m ³	ISO 1183

[C]: CAMPUS

Material specific properties	Value	Unit	Test Standard
ISO Data			
^[C] Viscosity number	158	cm³/g	ISO 307, 1157, 1628
[C]: CAMPUS			

Test specimen production	Value	Unit	Test Standard
ISO Data			
^[C] Injection Molding, melt temperature	260	°C	ISO 294
Injection Molding, mold temperature	80	°C	ISO 294
[C]: CAMPUS			

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120	°C	-
Pre-drying - Time	4 - 8	h	-
Processing humidity	≤0.02	%	-

Characteristics

Processing
 Film Extrusion, Profile Extrusion, Sheet Extrusion, Other Extrusion

Certifications
 Food contact

Delivery form
 Pellets

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

Other text information

Injection molding
 PREPROCESSING
 Residual moisture content: 0.00 - 0.02 %
 Drying temperature circulating air dryer: 120 °C

 Drying time circulating air dryer: 4 - 8 h

 PROCESSING