

**Product Texts**

Injection Molding, Unreinforced, Extrusion, Food Contact Quality

ISO 1043 PBT

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Melt volume-flow rate, MVR	45	cm <sup>3</sup> /10min	ISO 1133
Temperature	250	°C	-
Load	2.16	kg	-

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Tensile Modulus	2700	MPa	ISO 527
<sup>[C]</sup> Yield stress	55	MPa	ISO 527
<sup>[C]</sup> Yield strain	8	%	ISO 527
<sup>[C]</sup> Tensile creep modulus, 1h	2400	MPa	ISO 899-1
<sup>[C]</sup> Tensile creep modulus, 1000h	1400	MPa	ISO 899-1
<sup>[C]</sup> Charpy impact strength, +23°C	220	kJ/m <sup>2</sup>	ISO 179/1eU
<sup>[C]</sup> Charpy impact strength, -30°C	150	kJ/m <sup>2</sup>	ISO 179/1eU
<sup>[C]</sup> Charpy notched impact strength, +23°C	10	kJ/m <sup>2</sup>	ISO 179/1eA
<sup>[C]</sup> Charpy notched impact strength, -30°C	10	kJ/m <sup>2</sup>	ISO 179/1eA
<sup>[C]</sup> Puncture - maximum force, +23°C	3540	N	ISO 6603-2
<sup>[C]</sup> Puncture - maximum force, -30°C	3860	N	ISO 6603-2
<sup>[C]</sup> Puncture energy, +23°C	40	J	ISO 6603-2
<sup>[C]</sup> Puncture energy, -30°C	15	J	ISO 6603-2

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Melting temperature, 10°C/min	225	°C	ISO 11357-1/-3
<sup>[C]</sup> Temp. of deflection under load, 1.80 MPa	60	°C	ISO 75-1/-2
<sup>[C]</sup> Temp. of deflection under load, 0.45 MPa	160	°C	ISO 75-1/-2
<sup>[C]</sup> Coeff. of linear therm. expansion, parallel	120	E-6/K	ISO 11359-1/-2
<sup>[C]</sup> Coeff. of linear therm. expansion, normal	130	E-6/K	ISO 11359-1/-2
<sup>[C]</sup> Burning Behav. at 1.5 mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	1.5	mm	-
<sup>[C]</sup> Oxygen index	24	%	ISO 4589-1/-2

[C]: CAMPUS

Electrical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Relative permittivity, 100Hz	3.4	-	IEC 62631-2-1
<sup>[C]</sup> Relative permittivity, 1MHz	3.2	-	IEC 62631-2-1
<sup>[C]</sup> Dissipation factor, 100Hz	15	E-4	IEC 62631-2-1
<sup>[C]</sup> Dissipation factor, 1MHz	190	E-4	IEC 62631-2-1
<sup>[C]</sup> Volume resistivity	>1E13	Ohm*m	IEC 62631-3-1
<sup>[C]</sup> Surface resistivity	>1E15	Ohm	IEC 62631-3-2
<sup>[C]</sup> Electric strength	28	kV/mm	IEC 60243-1
<sup>[C]</sup> Comparative tracking index	600	-	IEC 60112

[C]: CAMPUS

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

[C]: CAMPUS

**Material specific properties**

	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Viscosity number	105	cm³/g	ISO 307, 1157, 1628

[C]: CAMPUS

**Test specimen production**

	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> 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**

Injection Molding, Film Extrusion, Other Extrusion, Coating

**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