

**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	16	cm <sup>3</sup> /10min	ISO 1133
Temperature	250	°C	-
Load	2.16	kg	-
<sup>[C]</sup> Molding shrinkage, parallel	1.8	%	ISO 294-4, 2577
<sup>[C]</sup> Molding shrinkage, normal	1.8	%	ISO 294-4, 2577
Thermal conductivity of melt	0.25	W/(m K)	-

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Tensile Modulus	2600	MPa	ISO 527
<sup>[C]</sup> Yield stress	60	MPa	ISO 527
<sup>[C]</sup> Yield strain	4	%	ISO 527
Flexural modulus, 23°C	2600	MPa	ISO 178
<sup>[C]</sup> Tensile creep modulus, 1h	2200	MPa	ISO 899-1
<sup>[C]</sup> Tensile creep modulus, 1000h	1300	MPa	ISO 899-1
<sup>[C]</sup> Charpy impact strength, +23°C	N	kJ/m <sup>2</sup>	ISO 179/1eU
<sup>[C]</sup> Charpy impact strength, -30°C	195	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
Izod impact strength, +23°C	N	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C	10	kJ/m <sup>2</sup>	ISO 180/1A
Izod notched impact strength	10	kJ/m <sup>2</sup>	ISO 180/1A
Temperature	-30	°C	-
<sup>[C]</sup> Puncture - maximum force, +23°C	3560	N	ISO 6603-2
<sup>[C]</sup> Puncture energy, +23°C	43	J	ISO 6603-2
Ball indentation hardness	120	MPa	ISO 2039-1

[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	55	°C	ISO 75-1/-2
<sup>[C]</sup> Temp. of deflection under load, 0.45 MPa	150	°C	ISO 75-1/-2
<sup>[C]</sup> Coeff. of linear therm. expansion, parallel	110	E-6/K	ISO 11359-1/-2
<sup>[C]</sup> Coeff. of linear therm. expansion, normal	110	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> Surface resistivity	>1E15	Ohm	IEC 62631-3-2
<sup>[C]</sup> Electric strength	27	kV/mm	IEC 60243-1
<sup>[C]</sup> Comparative tracking index	600	-	IEC 60112

[C]: CAMPUS

**Pocan® B1501 000000**

PBT

Envalior

Other properties	Value	Unit	Test Standard
<sup>[C]</sup> Water absorption	<b>0.5</b>	%	Sim. to ISO 62
<sup>[C]</sup> Humidity absorption	<b>0.2</b>	%	Sim. to ISO 62
<sup>[C]</sup> Density	<b>1310</b>	kg/m <sup>3</sup>	ISO 1183
Bulk density	<b>800</b>	kg/m <sup>3</sup>	-

[C]: CAMPUS

Material specific properties	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Viscosity number	<b>140</b>	cm <sup>3</sup> /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	<b>250</b>	°C	ISO 294
Injection Molding, mold temperature	<b>80</b>	°C	ISO 294

[C]: CAMPUS

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	<b>120</b>	°C	-
Pre-drying - Time	<b>4 - 8</b>	h	-
Processing humidity	<b>≤0.02</b>	%	-
Melt temperature	<b>250 - 260</b>	°C	-
Mold temperature	<b>80 - 100</b>	°C	-

**Characteristics****Processing**

Injection Molding, Other Extrusion

**Certifications**

Food contact

**Delivery form**

Pellets

**Regional Availability**

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

**Additives**

Release agent

**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**

Melt temperature (Tmin - Tmax): 250 - 260 °C

Mold temperature: 80 - 100 °C