

**Product Texts**

Injection Molding, 20% Glass Reinforced, Excellent Surface Properties

ISO 1043 (PBT+PET)-GF20

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Melt volume-flow rate, MVR	15	cm <sup>3</sup> /10min	ISO 1133
Temperature	260	°C	-
Load	2.16	kg	-
<sup>[C]</sup> Molding shrinkage, parallel	0.4	%	ISO 294-4, 2577
<sup>[C]</sup> Molding shrinkage, normal	1.0	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Tensile Modulus	7500	MPa	ISO 527
<sup>[C]</sup> Stress at break	120	MPa	ISO 527
<sup>[C]</sup> Strain at break	3.2	%	ISO 527
<sup>[C]</sup> Tensile creep modulus, 1h	7200	MPa	ISO 899-1
<sup>[C]</sup> Tensile creep modulus, 1000h	6100	MPa	ISO 899-1
<sup>[C]</sup> Charpy impact strength, +23°C	40	kJ/m <sup>2</sup>	ISO 179/1eU
<sup>[C]</sup> Charpy impact strength, -30°C	35	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

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Temp. of deflection under load, 1.80 MPa	195	°C	ISO 75-1/-2
<sup>[C]</sup> Temp. of deflection under load, 0.45 MPa	220	°C	ISO 75-1/-2
<sup>[C]</sup> Coeff. of linear therm. expansion, parallel	30	E-6/K	ISO 11359-1/-2
<sup>[C]</sup> Coeff. of linear therm. expansion, normal	90	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	21	%	ISO 4589-1/-2

[C]: CAMPUS

Electrical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Relative permittivity, 100Hz	3.8	-	IEC 62631-2-1
<sup>[C]</sup> Relative permittivity, 1MHz	3.6	-	IEC 62631-2-1
<sup>[C]</sup> Dissipation factor, 100Hz	18	E-4	IEC 62631-2-1
<sup>[C]</sup> Dissipation factor, 1MHz	170	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	24	kV/mm	IEC 60243-1
<sup>[C]</sup> Comparative tracking index	225	-	IEC 60112

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
<sup>[C]</sup> Water absorption	0.4	%	Sim. to ISO 62
<sup>[C]</sup> Humidity absorption	0.2	%	Sim. to ISO 62
<sup>[C]</sup> Density	1470	kg/m <sup>3</sup>	ISO 1183

[C]: CAMPUS

**Pocan® T7323 000000**

(PBT+PET)-GF20

Envalior

Material specific properties	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Viscosity number	92	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	270	°C	ISO 294
Injection Molding, mold temperature	90	°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	%	-
Melt temperature	260 - 280	°C	-
Mold temperature	80 - 100	°C	-

**Characteristics****Processing**

Injection Molding

**Special Characteristics**

Heat stabilized or stable to heat

**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): 260 - 280 °C

Mold temperature: 80 - 100 °C