

Pocan B 1505 Z 000000

ISO Shortname: ISO 7792-1-PBT-I,MHMR,15-020

Property	Test Condition	Unit	Standard	guide value
Rheological properties				
Göttfert melt viscosity	165 1/s; 260 °C	Pa·s	Lanxess-Methode	390
C Melt volume-flow rate	260 °C; 2.16 kg	cm ³ /(10 min)	ISO 1133	20
Molding shrinkage, parallel	150x105x3; 260 °C / MT 80 °C; 600 bar	%	acc. ISO 2577	2.1
Molding shrinkage, transverse	150x105x3; 260 °C / MT 80 °C; 600 bar	%	acc. ISO 2577	2.1
Post- shrinkage, parallel	150x105x3; 150 °C; 1 h	%	acc. ISO 2577	0.4
Post- shrinkage, transverse	150x105x3; 150 °C; 1 h	%	acc. ISO 2577	0.4
Mechanical properties (23 °C/50 % r. h.)				
C Tensile modulus	1 mm/min	MPa	ISO 527-1,-2	2400
C Yield stress	50 mm/min	MPa	ISO 527-1,-2	52
C Yield strain	50 mm/min	%	ISO 527-1,-2	4.2
C Nominal strain at break	50 mm/min	%	ISO 527-1,-2	50
C Charpy impact strength	-30 °C	kJ/m ²	ISO 179-1eU	220
Izod impact strength	23 °C	kJ/m ²	ISO 180-1U	150
Izod notched impact strength	23 °C	kJ/m ²	ISO 180-1A	7.5
Izod notched impact strength	-40 °C	kJ/m ²	ISO 180-1A	7.0
Flexural modulus	2 mm/min	MPa	ISO 178	2200
Flexural strain at flexural strength	2 mm/min	%	ISO 178	6.0
Thermal properties				
C Temperature of deflection under load	1.80 MPa	°C	ISO 75-1,-2	55
C Temperature of deflection under load	0.45 MPa	°C	ISO 75-1,-2	120
Vicat softening temperature	50 N; 120 °C/h	°C	ISO 306	175
C Coefficient of linear thermal expansion, parallel	23 to 55 °C	10 ⁻⁴ /K	ISO 11359-1,-2	1.05
C Coefficient of linear thermal expansion, transverse	23 to 55 °C	10 ⁻⁴ /K	ISO 11359-1,-2	1.05
Other properties (23 °C)				
C Density		kg/m ³	ISO 1183	1290
Processing conditions for test specimens				
C Injection molding-Melt temperature		°C	ISO 294	260
C Injection molding-Mold temperature		°C	ISO 294	80
Processing recommendations				
Drying temperature		°C	-	120
Drying time circulating air dryer		h	-	4-8
Residual moisture content		%	Acc. to Karl Fischer	0-0.02
Melt temperature		°C	-	250-270
Mold temperature		°C	-	80-100



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C These property characteristics are taken from the CAMPUS plastics data bank and are based on the international catalogue of basic data for plastics according to ISO 10350.



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Typical Properties

Property data is provided as general information only. Property values are approximate and are not part of the product specifications.

Flammability

Flammability results are based on small-scale laboratory tests for purposes of relative comparison and are not intended to reflect the hazards presented by this or any other material under actual fire conditions.

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