

Datasheet

Pocan C1506 901510

PBT+PC, non-reinforced, injection molding, low tendency to warp, improved surface finish

ISO Shortname: ISO 20028-PBT+PC,,GHMR,11-030

Property	Test Condition	Unit	Standard	guide value ¹
Rheological properties				
C Melt volume-flow rate	270 °C; 5 kg	cm ³ /(10 min)	ISO 1133-1	30
C Molding shrinkage, parallel	60x60x2; 600 bar	%	ISO 294-4	0.80
C Molding shrinkage, transverse	60x60x2; 600 bar	%	ISO 294-4	0.80
Post- shrinkage, parallel	60x60x2; 120 °C; 4 h	%	ISO 294-4	0.80
Post- shrinkage, transverse	60x60x2; 120 °C; 4 h	%	ISO 294-4	0.70
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	60
C Yield strain	50 mm/min	%	ISO 527-1,-2	4.8
C Charpy notched impact strength	23 °C	kJ/m ²	ISO 179-1eA	57
C Charpy notched impact strength	-30 °C	kJ/m ²	ISO 179-1eA	13
Izod notched impact strength	23 °C	kJ/m ²	ISO 180-1A	54
Flexural modulus	2 mm/min	MPa	ISO 178-A	2400
Flexural strength	2 mm/min	MPa	ISO 178-A	90
Flexural strain at flexural strength	2 mm/min	%	ISO 178-A	6
Flexural stress at 3.5 % strain	2 mm/min	MPa	ISO 178-A	80
Ball indentation hardness		N/mm ²	ISO 2039-1	120
Thermal properties				
C Melting temperature	10 °C/min	°C	ISO 11357-1,-3	220
C Temperature of deflection under load	1.80 MPa	°C	ISO 75-1,-2	100
C Temperature of deflection under load	0.45 MPa	°C	ISO 75-1,-2	105
Vicat softening temperature	50 N; 120 °C/h	°C	ISO 306	150
Other properties (23 °C)				
C Density		kg/m ³	ISO 1183	1217
Bulk density		kg/m ³	ISO 60	710
Processing conditions for test specimens				
C Injection molding-Melt temperature		°C	ISO 294	270
C Injection molding-Mold temperature		°C	ISO 294	80
Processing recommendations				
Drying temperature circulating air dryer		°C	-	120
Drying time circulating air dryer		h	-	4-8
Melt temperature (Tmin - Tmax)		°C	-	260-280
admissible residence time at Tmax		min	-	<5

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Property	Test Condition	Unit	Standard	guide value ¹
Mold temperature		°C	-	70-90

Notes

1 Typical properties: these are not to be construed as specifications

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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