

Datasheet Pocan B1205HR 000000

PBT, non-reinforced, injection molding, hydrolysis stabilized

ISO Shortname: ISO 20028-PBT,,,GHMRW,09-030

Property	Test Condition	Unit	Standard	guide value ¹
Rheological properties				
C Melt volume-flow rate	260 °C; 2.16 kg	cm ³ /(10 min)	ISO 1133-1	50
C Molding shrinkage, parallel	60x60x2; 250 °C / WZ 80° C; 600 bar	%	ISO 294-4	2.1
C Molding shrinkage, transverse	60x60x2; 250 °C / WZ 80° C; 600 bar	%	ISO 294-4	2.1
Post- shrinkage, parallel	60x60x2; 120 °C; 4 h	%	ISO 294-4	0.3
Post- shrinkage, transverse	60x60x2; 120 °C; 4 h	%	ISO 294-4	0.3
Mechanical properties (23 °C/50 % r. h.)				
C Tensile modulus	1 mm/min	MPa	ISO 527-1,-2	2600
C Yield stress	50 mm/min	MPa	ISO 527-1,-2	55
C Yield strain	50 mm/min	%	ISO 527-1,-2	3.5
C Charpy impact strength	23 °C	kJ/m²	ISO 179-1eU	150
C Charpy impact strength	-30 °C	kJ/m²	ISO 179-1eU	100
C Charpy notched impact strength	23 °C	kJ/m²	ISO 179-1eA	<10
Izod impact strength	23 °C	kJ/m²	ISO 180-1U	120
Izod impact strength	-30 °C	kJ/m²	ISO 180-1U	65
Izod notched impact strength	23 °C	kJ/m²	ISO 180-1A	<10
Flexural modulus	2 mm/min	MPa	ISO 178-A	2600
Flexural strength	2 mm/min	MPa	ISO 178-A	85
Flexural strain at flexural strength	2 mm/min	%	ISO 178-A	5.6
Flexural stress at 3.5 % strain	2 mm/min	MPa	ISO 178-A	75
Thermal properties				
C Melting temperature	10 °C/min	°C	ISO 11357-1,-3	225
C Temperature of deflection under load	1.80 MPa	°C	ISO 75-1,-2	75
C Temperature of deflection under load	0.45 MPa	°C	ISO 75-1,-2	140
Burning behavior US-FMVSS302	2.0 mm		ISO 3795	passed
Electrical properties (23 °C/50 % r. h.)				
C Comparative tracking index CTI	Solution A	Rating	IEC 60112	600
Other properties (23 °C)				
C Density		kg/m³	ISO 1183	1290
Bulk density		kg/m³	ISO 60	800
Processing conditions for test specimens				
C Injection molding-Melt temperature		°C	ISO 294	250
C Injection molding-Mold temperature		°C	ISO 294	80



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Processing recommendations				
Drying temperature circulating air dryer		°C	-	120
Drying time circulating air dryer		h	-	4-8
Residual moisture content		%	Acc. to Karl Fischer	0.00-0.02
Melt temperature (Tmin - Tmax)		°C	-	250-260
Mold temperature		°C	-	80-100

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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