Pocan® B1205XHR 000000

PBT — Envalior

Product Texts

Injection Molding, Unreinforced, Hydrolysis resistant

ISO 1043 PBT

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
[C] Melt volume-flow rate, MVR	**60**	cm³/10min	ISO 1133
Temperature	**260**	°C	-
Load	**2.16**	kg	-
[C] Molding shrinkage, parallel	**2.2**	%	ISO 294-4, 2577
[C] Molding shrinkage, normal	**2.2**	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
ISO Data			
[C] Tensile Modulus	**2100**	MPa	ISO 527
[C] Yield stress	**50**	MPa	ISO 527
[C] Yield strain	**5**	%	ISO 527
[C] Nominal strain at break	**15**	%	ISO 527
Flexural modulus, 23°C	**2200**	MPa	ISO 178
Flexural strength	**75**	MPa	ISO 178
[C] Charpy impact strength, +23°C	**140**	kJ/m²	ISO 179/1eU
[C] Charpy impact strength, -30°C	**80**	kJ/m²	ISO 179/1eU
[C] Charpy notched impact strength, +23°C	**10**	kJ/m²	ISO 179/1eA
[C] Charpy notched impact strength, -30°C	**10**	kJ/m²	ISO 179/1eA
Izod impact strength, +23°C	**100**	kJ/m²	ISO 180/1U
Izod notched impact strength, +23°C	**10**	kJ/m²	ISO 180/1A

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
ISO Data			
[C] Melting temperature, 10°C/min	**225**	°C	ISO 11357-1/-3
[C] Temp. of deflection under load, 1.80 MPa	**60**	°C	ISO 75-1/-2
[C] Temp. of deflection under load, 0.45 MPa	**140**	°C	ISO 75-1/-2
Vicat softening temperature, B	**170**	°C	ISO 306
[C] Coeff. of linear therm. expansion, parallel	**130**	E-6/K	ISO 11359-1/-2
[C] Coeff. of linear therm. expansion, normal	**130**	E-6/K	ISO 11359-1/-2

[C]: CAMPUS

Electrical properties	Value	Unit	Test Standard
ISO Data			
[C] Comparative tracking index	**600**	-	IEC 60112

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
[C] Density	**1290**	kg/m³	ISO 1183
Bulk density	**720**	kg/m³	-

[C]: CAMPUS

Test specimen production	Value	Unit	Test Standard
ISO Data			
[C] Injection Molding, melt temperature	**250**	°C	ISO 294
Injection Molding, mold temperature	**80**	°C	ISO 294

[C]: CAMPUS

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Processing humidity	**≤0.02**	%	-
Melt temperature	**250 - 260**	°C	-
Mold temperature	**80 - 100**	°C	-

Characteristics

Processing
Injection Molding

Delivery form
Pellets

Special Characteristics
Heat stabilized or stable to heat

Chemical Resistance
General Chemical Resistance, Hydrolytically Stable

Applications
Automotive, Electrical and Electronical

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

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