

Lanxess Pocan® B 5220 XF 000000 PBT, 20% Glass Spheres

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), Glass Bead Filled

Material Notes:

PBT, 20% glass spheres, injection molding, improved flowability, improved impact strength, low tendency to warp
Information provided by LANXESS.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lanxess-Pocan-B-5220-XF-000000-PBT-20-Glass-Spheres.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.42 g/cc	1.42 g/cc	ISO 1183
Bulk Density	0.900 g/cc	0.0325 lb/in ³	ISO 60
Linear Mold Shrinkage, Flow	0.0020 cm/cm	0.0020 in/in	Post-shrinkage, 60x60x2; 120°C; 4 hour; ISO 294-4
	0.022 cm/cm	0.022 in/in	60x60x2; 260°C / MT 80°C; 600 bar; ISO 294-4
Linear Mold Shrinkage, Transverse	0.0020 cm/cm	0.0020 in/in	Post-shrinkage, 60x60x2; 120°C; 4 hour; ISO 294-4
	0.023 cm/cm	0.023 in/in	60x60x2; 260°C / MT 80°C; 600 bar; ISO 294-4
Melt Flow	34 g/10 min @Load 2.16 kg, Temperature 260 °C	34 g/10 min @Load 4.76 lb, Temperature 500 °F	ISO 1133-1

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	45.0 MPa	6530 psi	ISO 527-1, -2; 5 mm/min
Elongation at Break	6.0 %	6.0 %	ISO 527-1, -2; 5 mm/min
Tensile Modulus	3.10 GPa	450 ksi	ISO 527-1, -2; 1 mm/min
Flexural Strength	90.0 MPa @Strain 5.00 %	13100 psi @Strain 5.00 %	2 mm/min; ISO 178-A
Flexural Yield Strength	85.0 MPa @Strain 3.50 %	12300 psi @Strain 3.50 %	2 mm/min; ISO 178-A
Flexural Modulus	3.30 GPa	479 ksi	2 mm/min; ISO 178-A
Izod Impact, Notched (ISO)	<= 10.0 kJ/m ² @Temperature 23.0 °C	<= 4.76 ft-lb/in ² @Temperature 73.4 °F	ISO 180-1A

Mechanical Properties	$\leq 10.0 \text{ kJ/m}^2$ Metric	$\leq 4.75 \text{ ft-lb/in}^2$ English	Comments ISO 180-1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Izod Impact, Unnotched (ISO)	25.0 kJ/m ² @Temperature -30.0 °C	11.9 ft-lb/in ² @Temperature -22.0 °F	ISO 180-1U
	40.0 kJ/m ² @Temperature 23.0 °C	19.0 ft-lb/in ² @Temperature 73.4 °F	ISO 180-1U
Charpy Impact Unnotched	2.50 J/cm ² @Temperature -30.0 °C	11.9 ft-lb/in ² @Temperature -22.0 °F	ISO 179-1eU
	4.50 J/cm ² @Temperature 23.0 °C	21.4 ft-lb/in ² @Temperature 73.4 °F	ISO 179-1eU
Charpy Impact, Notched	$\leq 1.00 \text{ J/cm}^2$ @Temperature 23.0 °C	$\leq 4.76 \text{ ft-lb/in}^2$ @Temperature 73.4 °F	ISO 179-1eA
	$\leq 1.00 \text{ J/cm}^2$ @Temperature -30.0 °C	$\leq 4.76 \text{ ft-lb/in}^2$ @Temperature -22.0 °F	ISO 179-1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	100 $\mu\text{m/m-}^\circ\text{C}$ @Temperature 23.0 - 55.0 °C	55.6 $\mu\text{in/in-}^\circ\text{F}$ @Temperature 73.4 - 131 °F	ISO 11359-1, -2
CTE, linear, Transverse to Flow	100 $\mu\text{m/m-}^\circ\text{C}$ @Temperature 23.0 - 55.0 °C	55.6 $\mu\text{in/in-}^\circ\text{F}$ @Temperature 73.4 - 131 °F	ISO 11359-1, -2
Melting Point	225 °C	437 °F	10°C/min; ISO 11357-1, -3
Deflection Temperature at 0.46 MPa (66 psi)	170 °C	338 °F	ISO 75-1, -2
Deflection Temperature at 1.8 MPa (264 psi)	80.0 °C	176 °F	ISO 75-1, -2
Vicat Softening Point	180 °C @Load 5.10 kg	356 °F @Load 11.2 lb	120°C/hour; ISO 306

Processing Properties	Metric	English	Comments
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Melt Temperature Processing Properties	250 - 270 Å°C Metric	482 - 518 Å°F English	Comments
	260 Å°C	500 Å°F	for test specimens; ISO 294
Mold Temperature	80.0 Å°C	176 Å°F	for test specimens; ISO 294
	80.0 - 100 Å°C	176 - 212 Å°F	
Drying Temperature	120 Å°C	248 Å°F	
Dry Time	4 - 8 hour	4 - 8 hour	
Moisture Content	0.00 - 0.020 %	0.00 - 0.020 %	residual; Karl Fischer Test

Descriptive Properties	Value	Comments
ISO Shortname	ISO 7792-1-PBT, GHMPR, 09-030, GB20	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China