

Lanxess Pocan® BF 8230 000000 PBT, 30% Glass Fiber

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), 30% Glass Fiber Filled

Material Notes:

PBT, 30% glass spheres/glass fibers, injection molding, flame retardant, low tendency to warp, improved surface finish

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lanxess-Pocan-BF-8230-000000-PBT-30-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.67 g/cc	0.0603 lb/in ³	ISO 1183
Water Absorption	0.30 %	0.30 %	Test Sim. to ISO 62
Moisture Absorption at Equilibrium	0.10 %	0.10 %	23°C/50% R.H.; Test Sim. to ISO 62
Viscosity Test	95 cm ³ /g	95 cm ³ /g	Viscosity number; ISO 307, 1157, 1628
Melt Flow	63 g/10 min @Load 5.00 kg, Temperature 260 °C	63 g/10 min @Load 11.0 lb, Temperature 500 °F	Estimated using room temperature density; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	95.0 MPa	13800 psi	ISO 527-1/-2
Elongation at Yield	2.0 %	2.0 %	ISO 527-1/-2
Tensile Modulus	7.50 GPa	1090 ksi	ISO 527-1/-2
Charpy Impact Unnotched	2.00 J/cm ²	9.52 ft-lb/in ²	ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact Unnotched	2.00 J/cm ²	9.52 ft-lb/in ²	ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	<= 1.00 J/cm ²	<= 4.76 ft-lb/in ²	ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	<= 1.00 J/cm ²	<= 4.76 ft-lb/in ²	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	30.0 µm/m-°C	16.7 µin/in-°F	ISO 11359-1/-2

Thermal Properties <i>CTE, linear, Transverse to Flow</i>	Metric <i>70.0 Åµm/m-Å°C</i>	English <i>30.0 Åµin/in-Å°F</i>	Comments <i>ISO 11359-1/-2</i>
Melting Point	225 Å°C	437 Å°F	10Å°C/min; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	210 Å°C	410 Å°F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	175 Å°C	347 Å°F	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	70.0 Å°C	158 Å°F	ISO 75-1/-2
Vicat Softening Point	200 Å°C	392 Å°F	50Å°C/h 50N; ISO 306
Flammability, UL94	V-0	V-0	IEC 60695-11-10
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	V-0	V-0	IEC 60695-11-10
	@Thickness 1.60 mm	@Thickness 0.0630 in	
Oxygen Index	32 %	32 %	ISO 4589-1/-2

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+14 ohm-cm	>= 1.00e+14 ohm-cm	IEC 60093
Surface Resistance	>= 1.00e+13 ohm	>= 1.00e+13 ohm	IEC 60093
Dielectric Constant	3.8	3.8	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	4.0	4.0	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	21.0 kV/mm	533 kV/in	IEC 60243-1
Dissipation Factor	0.013	0.013	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.017	0.017	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Comparative Tracking Index	175 V	175 V	IEC 60112

Processing Properties	Metric	English	Comments
Melt Temperature	260 Å°C	500 Å°F	Injection Molding; ISO 294
Mold Temperature			Injection Molding; ISO 10724

Processing Properties	80.0 A°C Metric	176 A°F English	Comments
Descriptive Properties	Value		Comments
Form	Pellets		
ISO Shortname	ISO 7792-1-PBT,GFHMR,09-070,(GB+GF)30; ISO 1043-PBT (GB+GF) FR(17)		
Processing	Injection molding		
Region	Asia Pacific		
	Europe		
	Near East/Africa		
	North America		
	South and Central America		

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