

Lanxess Pocan® BF 4232 000000 PBT, 30% Glass Fiber

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

Material Notes:

PBT, 30% glass fiber, injection molding, flame retardant Information provided by LANXESS.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lanxess-Pocan-BF-4232-000000-PBT-30-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Bulk Density	0.800 g/cc	0.0289 lb/in ³	ISO 60
Density	1.64 g/cc	0.0592 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.10 %	0.10 %	50% RH; ISO 62
Water Absorption at Saturation	0.40 %	0.40 %	ISO 62
Linear Mold Shrinkage, Flow	0.0040 cm/cm	0.0040 in/in	60x60x2; 260°C / MT 80°C; 600 bar; ISO 2577
Linear Mold Shrinkage, Transverse	0.010 cm/cm	0.010 in/in	60x60x2; 260°C / MT 80°C; 600 bar; ISO 2577
Melt Flow	19.68 g/10 min @Load 2.16 kg, Temperature 260 °C	19.68 g/10 min @Load 4.76 lb, Temperature 500 °F	ISO 1133-1

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	135 MPa	19600 psi	at yield, 50 mm/min; ISO 527-1,-2
Elongation at Yield	2.5 %	2.5 %	50 mm/min; ISO 527-1,-2
Tensile Modulus	10.0 GPa	1450 ksi	1 mm/min; ISO 527-1,-2
Flexural Strength	215 MPa	31200 psi	2 mm/min; ISO 178-A
Flexural Modulus	10.0 GPa	1450 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
	<= 10.0 kJ/m ² @Temperature -30.0 °C	<= 4.76 ft-lb/in ² @Temperature -22.0 °F	ISO 180-1A
Izod Impact, Unnotched (ISO)	50.0 kJ/m ² @Temperature 23.0	23.8 ft-lb/in ²	ISO 180-1U

Mechanical Properties	°C Metric	@Temperature 73.4 °F English	Comments
	50.0 kJ/mÅ²	23.8 ft-lb/inÅ²	
	@Temperature -30.0 Å°C	@Temperature -22.0 Å°F	ISO 180-1U
Charpy Impact Unnotched	5.50 J/cmÅ²	26.2 ft-lb/inÅ²	
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	ISO 179-1eU
	5.50 J/cmÅ²	26.2 ft-lb/inÅ²	
	@Temperature -30.0 Å°C	@Temperature -22.0 Å°F	ISO 179-1eU
Charpy Impact, Notched	<= 1.00 J/cmÅ²	<= 4.76 ft-lb/inÅ²	
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	ISO 179-1eA
	<= 1.00 J/cmÅ²	<= 4.76 ft-lb/inÅ²	
	@Temperature -30.0 Å°C	@Temperature -22.0 Å°F	ISO 179-1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	20.0 Åµm/m-Å°C	11.1 Åµin/in-Å°F	
	@Temperature 23.0 - 55.0 Å°C	@Temperature 73.4 - 131 Å°F	ISO 11359-1,-2
CTE, linear, Transverse to Flow	100 Åµm/m-Å°C	55.6 Åµin/in-Å°F	
	@Temperature 23.0 - 55.0 Å°C	@Temperature 73.4 - 131 Å°F	ISO 11359-1,-2
Melting Point	222 Å°C	432 Å°F	10 Å°C/min; ISO 11357-1,-3
Deflection Temperature at 0.46 MPa (66 psi)	220 Å°C	428 Å°F	ISO 75-1,-2
Deflection Temperature at 1.8 MPa (264 psi)	205 Å°C	401 Å°F	ISO 75-1,-2
Vicat Softening Point	210 Å°C	410 Å°F	50 N; 50 Å°C/h; ISO 306
Flammability, UL94	V-0	V-0	
	@Thickness 0.750 mm	@Thickness 0.0295 in	
	V-0	V-0	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	V-0	V-0	
	@Thickness 3.00 mm	@Thickness 0.118 in	

Thermal Properties	775 Â°C Metric	1430 Â°F English	Comments
	@Thickness 0.750 mm	@Thickness 0.0295 in	
	900 Â°C	1650 Â°F	
	@Thickness 1.50 mm	@Thickness 0.0591 in	GWIT; IEC 60695-2-13
	930 Â°C	1710 Â°F	
	@Thickness 3.00 mm	@Thickness 0.118 in	GWIT; IEC 60695-2-13
	960 Â°C	1760 Â°F	
	@Thickness 0.800 mm	@Thickness 0.0315 in	GWFI; IEC 60695-2-12
	960 Â°C	1760 Â°F	
	@Thickness 1.50 mm	@Thickness 0.0591 in	GWFI; IEC 60695-2-12
	960 Â°C	1760 Â°F	
	@Thickness 3.00 mm	@Thickness 0.118 in	GWFI; IEC 60695-2-12
Shrinkage	0.100 %	0.100 %	
	@Temperature 120 Â°C, Time 14400 sec	@Temperature 248 Â°F, Time 4.00 hour	post-shrinkage, 60x60x2; ISO 2577
	0.100 %	0.100 %	
	@Temperature 120 Â°C, Time 14400 sec	@Temperature 248 Â°F, Time 4.00 hour	post-shrinkage, transverse, 60x60x2; ISO 2577

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	IEC 60093
Surface Resistance	1.00e+17 ohm	1.00e+17 ohm	IEC 60093
Dielectric Constant	4.0	4.0	
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	IEC 60250
	4.1	4.1	
	@Frequency 100 Hz	@Frequency 100 Hz	IEC 60250
Dissipation Factor	0.0030	0.0030	
	@Frequency 100 Hz	@Frequency 100 Hz	IEC 60250
	0.0165	0.0165	
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	IEC 60250
Comparative Tracking Index	250 - 400 V	250 - 400 V	Solution A; UL 746A

Processing Properties	Metric	English	Comments
Melt Temperature	250 Â°C	482 Â°F	Injection molding; ISO 294
Mold Temperature	80.0 Â°C	176 Â°F	Injection molding; ISO 294
Dry Time	4.00 - 8.00 hour	4.00 - 8.00 hour	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
Moisture Content	0.00 - 0.020 %	0.00 - 0.020 %	Karl Fischer test

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