

Lanxess Pocan® BFN 4231 000000 PBT, 25% 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, 25% glass fibers, injection molding, halogen free flame retardant Information provided by LANXESS.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lanxess-Pocan-BFN-4231-000000-PBT-25-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.52 g/cc	0.0549 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0050 cm/cm	0.0050 in/in	60x60x2; 260°C / MT 80°C; 600 bar; ISO 294-4
Linear Mold Shrinkage, Transverse	0.012 cm/cm	0.012 in/in	60x60x2; 260°C / MT 80°C; 600 bar; ISO 294-4
Melt Flow	60.8 g/10 min @Load 5.00 kg, Temperature 260 °C	60.8 g/10 min @Load 11.0 lb, Temperature 500 °F	ISO 1133-1

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	100 MPa	14500 psi	5 mm/min; ISO 527-1,-2
Elongation at Break	2.2 %	2.2 %	5 mm/min; ISO 527-1,-2
Tensile Modulus	10.5 GPa	1520 ksi	1 mm/min; ISO 527-1,-2
Flexural Strength	165 MPa	23900 psi	2 mm/min; ISO 178-A
Flexural Modulus	10.0 GPa	1450 ksi	2 mm/min; ISO 178-A
Izod Impact, Unnotched (ISO)	33.0 kJ/m ² @Temperature -30.0 °C	15.7 ft-lb/in ² @Temperature -22.0 °F	ISO 180-1U
	36.0 kJ/m ² @Temperature 23.0 °C	17.1 ft-lb/in ² @Temperature 73.4 °F	ISO 180-1U
Charpy Impact Unnotched	3.50 J/cm ² @Temperature -30.0 °C	16.7 ft-lb/in ² @Temperature -22.0 °F	ISO 179-1eU
	4.00 J/cm ² @Temperature 23.0 °C	19.0 ft-lb/in ² @Temperature 73.4 °F	ISO 179-1eU

Thermal Properties	Metric	English	Comments
	30.0 µm/m-°C	16.7 µin/in-°F	

Thermal Properties	Metric	English	Comments
	55.0 °C	131 °F	
CTE, linear, Transverse to Flow	90.0 µm/m-°C @Temperature 23.0 - 55.0 °C	50.0 µin/in-°F @Temperature 73.4 - 131 °F	ISO 11359-1,-2
Melting Point	220 °C	428 °F	10 °C/min; ISO 11357-1,-3
Deflection Temperature at 0.46 MPa (66 psi)	224 °C	435 °F	ISO 75-1,-2
Deflection Temperature at 1.8 MPa (264 psi)	210 °C	410 °F	ISO 75-1,-2
Vicat Softening Point	206 °C	403 °F	50 N; 120 °C/h; ISO 306
Flammability, UL94	V-0 @Thickness 0.400 mm	V-0 @Thickness 0.0157 in	
	V-0 @Thickness 0.750 mm	V-0 @Thickness 0.0295 in	
	V-0 @Thickness 1.50 mm	V-0 @Thickness 0.0591 in	
	V-0 @Thickness 3.00 mm	V-0 @Thickness 0.118 in	
	5VA @Thickness 1.50 mm	5VA @Thickness 0.0591 in	1.6 mm
Oxygen Index	43.7 %	43.7 %	Method A; ISO 4589-2
Glow Wire Test	775 °C @Thickness 0.750 mm	1430 °F @Thickness 0.0295 in	GWIT; IEC 60695-2-13
	825 °C @Thickness 1.50 mm	1520 °F @Thickness 0.0591 in	GWIT; IEC 60695-2-13
	850 °C @Thickness 0.400 mm	1560 °F @Thickness 0.0157 in	GWIT; IEC 60695-2-13
	850 °C @Thickness 3.00 mm	1560 °F @Thickness 0.118 in	GWIT; IEC 60695-2-13
	960 °C @Thickness 0.400 mm	1760 °F @Thickness 0.0157 in	GWFI; IEC 60695-2-12

Thermal Properties	960 °C Metric	1760 °F English	Comments 0695-2-12
	@Thickness 0.750 mm	@Thickness 0.0295 in	
	960 °C	1760 °F	GWFI; IEC 60695-2-12
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	960 °C	1760 °F	GWFI; IEC 60695-2-12
	@Thickness 3.00 mm	@Thickness 0.118 in	
Shrinkage	0.100 %	0.100 %	post-shrinkage, 60x60x2; ISO 294-4
	@Temperature 120 °C, Time 14400 sec	@Temperature 248 °F, Time 4.00 hour	
	0.100 %	0.100 %	post-shrinkage, transverse, 60x60x2; ISO 294-4
	@Temperature 120 °C, Time 14400 sec	@Temperature 248 °F, Time 4.00 hour	

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.30e+16 ohm-cm	2.30e+16 ohm-cm	IEC 60093
Surface Resistance	2.00e+16 ohm	2.00e+16 ohm	IEC 60093
Dielectric Strength	35.0 kV/mm	889 kV/in	IEC 60243-1
Comparative Tracking Index	>= 600 V	>= 600 V	Solution A; UL 746A

Processing Properties	Metric	English	Comments
Melt Temperature	260 °C	500 °F	Injection molding; ISO 294
Mold Temperature	80.0 °C	176 °F	Injection molding; ISO 294
Dry Time	4.00 - 8.00 hour	4.00 - 8.00 hour	
	@Temperature 120 °C	@Temperature 248 °F	
Moisture Content	0.020 %	0.020 %	Karl Fischer test

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