

Lanxess Pocan® BF 4130 XF 000000 PBT, 30% Glass Fiber

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

Material Notes:

PBT, 30% glass fibers, injection molding, flame retardant, improved flowability
Information provided by LANXESS.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lanxess-Pocan-BF-4130-XF-000000-PBT-30-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.62 g/cc	1.62 g/cc	ISO 1183
Bulk Density	0.700 g/cc	0.0253 lb/in ³	ISO 60
Viscosity Test	62 cm ³ /g	62 cm ³ /g	Viscosity number; ISO 1628-5
Linear Mold Shrinkage, Flow	0.0010 cm/cm	0.0010 in/in	Post-shrinkage, 60x60x2; 120 ^o C; 4 hour; ISO 294-4
	0.0030 cm/cm	0.0030 in/in	60x60x2; 250 ^o C / WZ 80 ^o C; 600 bar; ISO 294-4
Linear Mold Shrinkage, Transverse	0.0010 cm/cm	0.0010 in/in	Post-shrinkage, 60x60x2; 120 ^o C; 4 hour; ISO 294-4
	0.0080 cm/cm	0.0080 in/in	60x60x2; 250 ^o C / WZ 80 ^o C; 600 bar; ISO 294-4
Melt Flow	17 g/10 min	17 g/10 min	ISO 1133-1
	@Load 2.16 kg, Temperature 260 ^o C	@Load 4.76 lb, Temperature 500 ^o F	

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	160 MPa	23200 psi	ISO 2039-1
Tensile Strength at Break	130 MPa	18900 psi	ISO 527-1, -2; 5 mm/min
Elongation at Break	2.2 %	2.2 %	ISO 527-1, -2; 5 mm/min
Tensile Modulus	10.5 GPa	1520 ksi	ISO 527-1, -2; 1 mm/min
Flexural Strength	200 MPa	29000 psi	2 mm/min; ISO 178-A
	@Strain 2.60 %	@Strain 2.60 %	
Flexural Modulus	10.0 GPa	1450 ksi	2 mm/min; ISO 178-A
Izod Impact, Notched (ISO)	<= 10.0 kJ/m ²	<= 4.76 ft-lb/in ²	ISO 180-1A
	@Temperature 23.0 ^o C	@Temperature 73.4 ^o F	
	<= 10.0 kJ/m ²	<= 4.76 ft-lb/in ²	

Mechanical Properties	Metric	English	Comments
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Izod Impact, Unnotched (ISO)	50.0 kJ/m ² @Temperature -30.0 °C	23.8 ft-lb/in ² @Temperature -22.0 °F	ISO 180-1U
	55.0 kJ/m ² @Temperature 23.0 °C	26.2 ft-lb/in ² @Temperature 73.4 °F	ISO 180-1U
Charpy Impact Unnotched	5.00 J/cm ² @Temperature -30.0 °C	23.8 ft-lb/in ² @Temperature -22.0 °F	ISO 179-1eU
	5.50 J/cm ² @Temperature 23.0 °C	26.2 ft-lb/in ² @Temperature 73.4 °F	ISO 179-1eU
Charpy Impact, Notched	<= 1.00 J/cm ² @Temperature 23.0 °C	<= 4.76 ft-lb/in ² @Temperature 73.4 °F	ISO 179-1eA
	<= 1.00 J/cm ² @Temperature -30.0 °C	<= 4.76 ft-lb/in ² @Temperature -22.0 °F	ISO 179-1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	20.0 µm/m-°C @Temperature 23.0 - 55.0 °C	11.1 µin/in-°F @Temperature 73.4 - 131 °F	ISO 11359-1, -2
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	228 °C	442 °F	10°C/min; ISO 11357-1, -3
Maximum Service Temperature, Air	215 °C	419 °F	Resistance to heat - ball pressure test; IEC 60695-10-2
Deflection Temperature at 0.46 MPa (66 psi)	220 °C	428 °F	ISO 75-1, -2
Deflection Temperature at 1.8 MPa (264 psi)	205 °C	401 °F	ISO 75-1, -2
Vicat Softening Point	205 °C @Load 5.10 kg	401 °F @Load 11.2 lb	120°C/hour; ISO 306
	V-0	V-0	

Flammability UL 94 Thermal Properties	Metric @Thickness 1.50 mm	English @Thickness 0.0591 in	Comments
	V-0	V-0	
	@Thickness 0.750 mm	@Thickness 0.0295 in	
Glow Wire Test	775 Â°C	1430 Â°F	GWIT; IEC 60695-2-13
	@Diameter 0.800 mm	@Diameter 0.0315 in	
	775 Â°C	1430 Â°F	GWIT; IEC 60695-2-13
	@Diameter 1.50 mm	@Diameter 0.0591 in	
	775 Â°C	1430 Â°F	GWIT; IEC 60695-2-13
	@Diameter 3.00 mm	@Diameter 0.118 in	
	960 Â°C	1760 Â°F	GWFI; IEC 60695-2-12
	@Diameter 0.800 mm	@Diameter 0.0315 in	
	960 Â°C	1760 Â°F	GWFI; IEC 60695-2-12
	@Diameter 1.50 mm	@Diameter 0.0591 in	
	960 Â°C	1760 Â°F	GWFI; IEC 60695-2-12
	@Diameter 3.00 mm	@Diameter 0.118 in	

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	200 V	200 V	d.a.m.; Solution A; IEC 60112

Processing Properties	Metric	English	Comments
Melt Temperature	240 - 260 Â°C	464 - 500 Â°F	
	250 Â°C	482 Â°F	for test specimens; ISO 294
Mold Temperature	80.0 Â°C	176 Â°F	for test specimens; ISO 294
	80.0 - 100 Â°C	176 - 212 Â°F	
Drying Temperature	120 Â°C	248 Â°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-PBT, GFHR, 07-100, GF30; ISO 1043-PBT GF FR(17)	

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