

Lanxess Pocan® BF 4409 000000 PBT, 7% Glass Fiber

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), 10% Glass Fiber Filled

Material Notes:

PBT, 7% glass fibers, injection molding, flame retardant

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lanxess-Pocan-BF-4409-000000-PBT-7-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.49 g/cc	0.0538 lb/in ³	ISO 1183
Water Absorption	0.35 %	0.35 %	Test Sim. to ISO 62
Moisture Absorption at Equilibrium	0.15 %	0.15 %	23°C/50% R.H.; Test Sim. to ISO 62
Linear Mold Shrinkage, Flow	0.0013 cm/cm	0.0013 in/in	ISO 294-4, 2577
Linear Mold Shrinkage, Transverse	0.0012 cm/cm	0.0012 in/in	ISO 294-4, 2577
Melt Flow	19 g/10 min @Load 2.16 kg, Temperature 260 °C	19 g/10 min @Load 4.76 lb, Temperature 500 °F	Estimated using room temperature density; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	75.0 MPa	10900 psi	ISO 527-1/-2
Tensile Strength, Yield	80.0 MPa	11600 psi	ISO 527-1/-2
Elongation at Break	4.0 %	4.0 %	ISO 527-1/-2
Elongation at Yield	3.5 %	3.5 %	ISO 527-1/-2
Tensile Modulus	4.70 GPa	682 ksi	ISO 527-1/-2
Charpy Impact Unnotched	4.00 J/cm ² @Temperature -30.0 °C	19.0 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
Charpy Impact, Notched	<= 1.00 J/cm ² @Temperature -30.0 °C	<= 4.76 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eA
	<= 1.00 J/cm ² @Temperature 23.0	<= 4.76 ft-lb/in ²	ISO 179/1eA

Mechanical Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	60.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	33.3 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-1/-2
CTE, linear, Transverse to Flow	110 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	61.1 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-1/-2
Melting Point	225 $\text{Å}^\circ\text{C}$	437 $\text{Å}^\circ\text{F}$	10 $\text{Å}^\circ\text{C}/\text{min}$; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	205 $\text{Å}^\circ\text{C}$	401 $\text{Å}^\circ\text{F}$	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	145 $\text{Å}^\circ\text{C}$	293 $\text{Å}^\circ\text{F}$	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	50.0 $\text{Å}^\circ\text{C}$	122 $\text{Å}^\circ\text{F}$	ISO 75-1/-2
Vicat Softening Point	205 $\text{Å}^\circ\text{C}$	401 $\text{Å}^\circ\text{F}$	50 $\text{Å}^\circ\text{C}/\text{h}$ 50N; ISO 306
Flammability, UL94	V-0 @Thickness 0.400 mm	V-0 @Thickness 0.0157 in	IEC 60695-11-10
Oxygen Index	31 %	31 %	ISO 4589-1/-2

Electrical Properties	Metric	English	Comments
Volume Resistivity	$\geq 1.00\text{e}+14$ ohm-cm	$\geq 1.00\text{e}+14$ ohm-cm	IEC 60093
Surface Resistance	$\geq 1.00\text{e}+16$ ohm	$\geq 1.00\text{e}+16$ ohm	IEC 60093
Dielectric Constant	3.6 @Frequency 1.00e+6 Hz	3.6 @Frequency 1.00e+6 Hz	IEC 60250
	3.7 @Frequency 100 Hz	3.7 @Frequency 100 Hz	IEC 60250
Dielectric Strength	27.0 kV/mm	686 kV/in	IEC 60243-1
Dissipation Factor	0.0050 @Frequency 100 Hz	0.0050 @Frequency 100 Hz	IEC 60250
	0.060 @Frequency 1.00e+6 Hz	0.060 @Frequency 1.00e+6 Hz	IEC 60250
Comparative Tracking Index	225 V	225 V	IEC 60112

Processing Properties	Metric	English	Comments
Melt Temperature	260 $\text{Å}^\circ\text{C}$	500 $\text{Å}^\circ\text{F}$	Injection Molding; ISO 294

Processing Properties	Metric	English	Comments
Mold Temperature	80.0 A °C	176 A °F	Injection Molding: ISO 10724

Descriptive Properties	Value	Comments
Additives	Flame retarding agent	
	Release agent	
Features	Flame retardant	
Form	Pellets	
ISO Shortname	ISO 7792-1-PBT,GFHMR,11-050,GF7; ISO 1043-PBT GF FR(17)	
Processing	Injection molding	
Region	Asia Pacific	
	Europe	
	Near East/Africa	
	North America	
	South and Central America	

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