Lanxess PocanÂ® BF 4235 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 fibers, injection molding, flame retardant

Order this product through the following link:
http://www.lookpolymers.com/polymer_Lanxess-Pocan-BF-4235-000000-PBT-30-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.65 g/cc	0.0596 lb/inÂ³	ISO 1183
Water Absorption	0.40 %	0.40 %	Test Sim. to ISO 62
Moisture Absorption at Equilibrium	0.10 %	0.10 %	23Â°C/50% R.H.; Test Sim. to ISO 62
Viscosity Test	93 cmÂ³/g	93 cmÂ³/g	Viscosity number; ISO 307, 1157, 1628
Linear Mold Shrinkage, Flow	0.0030 cm/cm	0.0030 in/in	ISO 294-4, 2577
Linear Mold Shrinkage, Transverse	0.0012 cm/cm	0.0012 in/in	ISO 294-4, 2577
Melt Flow	25 g/10 min @Load 2.16 kg, Temperature 260 Â°C	25 g/10 min @Load 4.76 lb, Temperature 500 Â°F	Estimated using room temperature density; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	130 MPa	18900 psi	ISO 527-1/-2
Elongation at Break	2.0 %	2.0 %	ISO 527-1/-2
Tensile Modulus	10.5 GPa	1520 ksi	ISO 527-1/-2
Charpy Impact Unnotched	5.00 J/cmÂ² @Temperature -30.0 Â°C	23.8 ft-lb/inÂ² @Temperature -22.0 Â°F	ISO 179/1eU
	5.00 J/cmÂ² @Temperature 23.0 Â°C	23.8 ft-lb/inÂ² @Temperature 73.4 Â°F	ISO 179/1eU
Charpy Impact, Notched	<= 1.00 J/cmÂ² @Temperature -30.0 Â°C	<= 4.76 ft-lb/inÂ² @Temperature -22.0 Â°F	ISO 179/1eA
	<= 1.00 J/cmÂ² @Temperature 23.0 Â°C	<= 4.76 ft-lb/inÂ² @Temperature 73.4 Â°F	ISO 179/1eA

Mechanical Properties	Metric	English	Comments
Tensile Creep Modulus, 1 hour	11000 MPa	1.60e+6 psi	ISO 899-1
Tensile Creep Modulus, 1000 hours	10000 MPa	1.45e+6 psi	ISO 899-1

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	20.0 Âµm/m-Â°C	11.1 Âµin/in-Â°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	80.0 Âµm/m-Â°C	44.4 Âµin/in-Â°F	ISO 11359-1/-2
Melting Point	225 Â°C	437 Â°F	10Â°C/min; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	220 Â°C	428 Â°F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	210 Â°C	410 Â°F	ISO 75-1/-2
Vicat Softening Point	210 Â°C	410 Â°F	50Â°C/h 50N; ISO 306
Flammability, UL94	V-0 @Thickness 0.750 mm	V-0 @Thickness 0.0295 in	IEC 60695-11-10
	V-0 @Thickness 1.50 mm	V-0 @Thickness 0.0591 in	IEC 60695-11-10
	V-0 @Thickness 3.00 mm	V-0 @Thickness 0.118 in	IEC 60695-11-20
Oxygen Index	32 %	32 %	ISO 4589-1/-2

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+15 ohm-cm	>= 1.00e+15 ohm-cm	IEC 60093
Surface Resistance	>= 1.00e+15 ohm	>= 1.00e+15 ohm	IEC 60093
Dielectric Constant	3.9 @Frequency 1.00e+6 Hz	3.9 @Frequency 1.00e+6 Hz	IEC 60250
	4.0 @Frequency 100 Hz	4.0 @Frequency 100 Hz	IEC 60250
Dielectric Strength	29.0 kV/mm	737 kV/in	IEC 60243-1
Dissipation Factor	0.0050 @Frequency 100 Hz	0.0050 @Frequency 100 Hz	IEC 60250
	0.016	0.016	IEC 60250

Electrical Properties	Metric @Frequency 1.00e+6 Hz	English @Frequency 1.00e+6 Hz	Comments
Comparative Tracking Index	175 V	175 V	IEC 60112

Processing Properties	Metric	English	Comments
Melt Temperature	260 Â°C	500 Â°F	Injection Molding; ISO 294
Mold Temperature	80.0 Â°C	176 Â°F	Injection Molding; ISO 10724

Descriptive Properties	Value	Comments
Form	Pellets	
ISO Shortname	ISO 7792-1-PBT,GFHMR,07-100,GF30; ISO 1043-PBT GF FR(17)	
Processing	Injection molding	
Region	Asia Pacific	
	Europe	
	Near East/Africa	
	North America	
	South and Central America	

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