

Lanxess Pocan® B 3225 00000 PBT, 20% Glass Fiber

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), 20% Glass Fiber Filled

Material Notes:

PBT, 20% glass fibers, injection molding

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lanxess-Pocan-B-3225-00000-PBT-20-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.46 g/cc	0.0527 lb/in ³	ISO 1183
Water Absorption	0.40 %	0.40 %	Test Sim. to ISO 62
Moisture Absorption at Equilibrium	0.20 %	0.20 %	23 ^o C/50% R.H.; Test Sim. to ISO 62
Viscosity Test	100 cm ³ /g	100 cm ³ /g	Viscosity number; ISO 307, 1157, 1628
Melt Flow	26 g/10 min @Load 2.16 kg, Temperature 260 ^o C	26 g/10 min @Load 4.76 lb, Temperature 500 ^o F	Calculated from MVR using melt density; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	120 MPa	17400 psi	ISO 527-1/-2
Elongation at Break	2.6 %	2.6 %	ISO 527-1/-2
Tensile Modulus	7.00 GPa	1020 ksi	ISO 527-1/-2
Charpy Impact Unnotched	4.50 J/cm ² @Temperature -30.0 ^o C	21.4 ft-lb/in ² @Temperature -22.0 ^o F	ISO 179/1eU
	5.00 J/cm ² @Temperature 23.0 ^o C	23.8 ft-lb/in ² @Temperature 73.4 ^o F	ISO 179/1eU
Charpy Impact, Notched	<= 1.00 J/cm ² @Temperature -30.0 ^o C	<= 4.76 ft-lb/in ² @Temperature -22.0 ^o F	ISO 179/1eA
	<= 1.00 J/cm ² @Temperature 23.0 ^o C	<= 4.76 ft-lb/in ² @Temperature 73.4 ^o F	ISO 179/1eA
Impact	635	635	Puncture maximum force (N); ISO 6603-2
	626	626	

Mechanical Properties	Metric @ Temperature -30.0 Â°C	English @ Temperature -22.0 Â°F	Comments Puncture maximum force (N); ISO 6603-2
Puncture Energy	10.6 J	7.82 ft-lb	ISO 6603-2
	1.80 J @Temperature -30.0 Â°C	1.33 ft-lb @Temperature -22.0 Â°F	ISO 6603-2
Tensile Creep Modulus, 1 hour	6900 MPa	1.00e+6 psi	ISO 899-1
Tensile Creep Modulus, 1000 hours	6300 MPa	914000 psi	ISO 899-1

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	30.0 Âµm/m-Â°C	16.7 Âµin/in-Â°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	110 Âµm/m-Â°C	61.1 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
Deflection Temperature at 8.0 MPa	140 Â°C	284 Â°F	ISO 75-1/-2
Vicat Softening Point	215 Â°C	419 Â°F	50Â°C/h 50N; ISO 306
Flammability, UL94	HB @Thickness 0.800 mm	HB @Thickness 0.0315 in	IEC 60695-11-10
	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	IEC 60695-11-10
Oxygen Index	20 %	20 %	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	3.6 @Frequency 1.00e+6 Hz	3.6 @Frequency 1.00e+6 Hz	IEC 60250
	3.8 @Frequency 100 Hz	3.8 @Frequency 100 Hz	IEC 60250

Dielectric Strength Electrical Properties	30.0 kV/mm Metric	752 kV/in English	IEC 60243-1 Comments
Dissipation Factor	0.0015 @Frequency 100 Hz	0.0015 @Frequency 100 Hz	IEC 60250
	0.020 @Frequency 1.00e+6 Hz	0.020 @Frequency 1.00e+6 Hz	IEC 60250
Comparative Tracking Index	350 V	350 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
Additives	Release agent	
Form	Pellets	
ISO Shortname	ISO 7792-1-PBT,GHMR,09-070,GF20	
Processing	Injection molding	
Region	Asia Pacific	
	Europe	
	Near East/Africa	
	North America	
	South and Central America	

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