

Lanxess Pocan® B 4235 00000 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-B-4235-00000-PBT-30-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.65 g/cc	0.0596 lb/in ³	ISO 1183
Water Absorption	0.40 %	0.40 %	Test Sim. to ISO 62
Moisture Absorption at Equilibrium	0.10 %	0.10 %	23 ^o C/50% R.H.; Test Sim. to ISO 62
Viscosity Test	93 cm ³ /g	93 cm ³ /g	Viscosity number; ISO 307, 1157, 1628
Linear Mold Shrinkage, Flow	0.0040 cm/cm	0.0040 in/in	ISO 294-4, 2577
Linear Mold Shrinkage, Transverse	0.0010 cm/cm	0.0010 in/in	ISO 294-4, 2577
Melt Flow	20 g/10 min @Load 2.16 kg, Temperature 260 ^o C	20 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	134 MPa	19400 psi	ISO 527-1/-2
Elongation at Break	2.2 %	2.2 %	ISO 527-1/-2
	2.9 %	2.9 %	Nominal; ISO 527-1/-2
Tensile Modulus	10.3 GPa	1490 ksi	ISO 527-1/-2
Charpy Impact Unnotched	5.00 J/cm ² @Temperature -30.0 ^o C	23.8 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	<= 4.76 ft-lb/in ²	

Mechanical Properties	@Temperature 23.0 Metric °C	@Temperature 73.4 °F English	ISO 179/1eA Comments
Impact	661	661	Puncture maximum force (N); ISO 6603-2
Puncture Energy	2.30 J	1.70 ft-lb	ISO 6603-2
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 Åµm/m-Å°C	11.1 Åµin/in-Å°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	80.0 Åµm/m-Å°C	44.4 Åµin/in-Å°F	ISO 11359-1/-2
Melting Point	225 Å°C	437 Å°F	10Å°C/min; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	220 Å°C	428 Å°F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	210 Å°C	410 Å°F	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	130 Å°C	266 Å°F	ISO 75-1/-2
Vicat Softening Point	210 Å°C	410 Å°F	50Å°C/h 50N; ISO 306
Flammability, UL94	V-2	V-2	IEC 60695-11-10
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	V-0	V-0	IEC 60695-11-10
@Thickness 1.60 mm	@Thickness 0.0630 in		
Oxygen Index	5VA	5VA	IEC 60695-11-20
	@Thickness 3.20 mm	@Thickness 0.126 in	
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	3.9	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Constant	4.0	4.0	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	

Electrical Properties	Metric	English	Comments
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 @Frequency 1.00e+6 Hz	0.016 @Frequency 1.00e+6 Hz	IEC 60250
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
Additives	Flame retarding agent	
	Release agent	
Features	Flame retardant	
Form	Pellets	
ISO Shortname	ISO 7792-1-PBT,GFHMR,09-100;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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