

Lanxess Pocan® B 7616 00000 PBT + PC, 15% Glass Fiber

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate/Polybutylene Terephthalate (PBT) Blend, Glass Filled , Polyester, TP , Polybutylene Terephthalate (PBT)

Material Notes:

PBT+PC, 15% glass fibers, injection molding, low tendency to warp, improved surface finish

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lanxess-Pocan-B-7616-000000-PBT-PC-15-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.35 g/cc	0.0488 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°C/50% R.H.; Test Sim. to ISO 62
Melt Flow	21 g/10 min @Load 2.16 kg, Temperature 260 °C	21 g/10 min @Load 4.76 lb, Temperature 500 °F	Calculated from MVR using melt density; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	80.0 MPa	11600 psi	ISO 527-1/-2
Elongation at Break	4.0 %	4.0 %	ISO 527-1/-2
Tensile Modulus	4.00 GPa	580 ksi	ISO 527-1/-2
Charpy Impact Unnotched	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 °C	<= 4.76 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eA
Impact	437	437	Puncture maximum force (N); ISO 6603-2
Puncture Energy	1.30 J	0.959 ft-lb	ISO 6603-2

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	40.0 µm/m-°C	22.2 µin/in-°F	ISO 11359-1/-2

CTE, linear, Transverse to Flow Thermal Properties	70.0 Åum/m-Å°C Metric	38.9 Åuin/in-Å°F English	ISO 11359-1/-2 Comments
Melting Point	225 Å°C	437 Å°F	10Å°C/min; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	120 Å°C	248 Å°F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	100 Å°C	212 Å°F	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	75.0 Å°C	167 Å°F	ISO 75-1/-2
Vicat Softening Point	145 Å°C	293 Å°F	50Å°C/h 50N; ISO 306
Flammability, UL94	HB	HB	IEC 60695-11-10
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	HB	HB	IEC 60695-11-10
	@Thickness 1.60 mm	@Thickness 0.0630 in	

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	3.4	3.4	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	3.5	3.5	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	34.0 kV/mm	864 kV/in	IEC 60243-1
Dissipation Factor	0.0010	0.0010	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.013	0.013	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Comparative Tracking Index	200 V	200 V	IEC 60112

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

Descriptive Properties	Value	Comments
Form	Pellets	
ISO Shortname	ISO 7792-1-PBT+PC,GHMR,09-040,GF15	
Processing	Injection molding	
Region	Asia Pacific	
	Europe	
	Near East/Africa	
	North America	
	South and Central America	

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