

Lanxess Pocan® B 3233 HR 000000 Polybutylene Terephthalate, 30% Glass Fibers

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), 30% Glass Fiber Filled

Material Notes:

PBT, 30% glass fibers, injection molding, improved flowability, hydrolysis stabilized

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lanxess-Pocan-B-3233-HR-000000-Polybutylene-Terephthalate-30-Glass-Fibers.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.48 g/cc	1.48 g/cc	ISO 1183
Linear Mold Shrinkage, Flow	0.0030 cm/cm @Thickness 2.00 mm	0.0030 in/in @Thickness 0.0787 in	Mold Temp 80°C; Melt Temp 260°C; 600 bar; ISO 294-4
Linear Mold Shrinkage, Transverse	0.010 cm/cm @Thickness 2.00 mm	0.010 in/in @Thickness 0.0787 in	Mold Temp 80°C; Melt Temp 260°C; 600 bar; ISO 294-4
Melt Flow	15 g/10 min @Load 2.16 kg, Temperature 260 °C	15 g/10 min @Load 4.76 lb, Temperature 500 °F	volumetric flow - cm ³ /10 min; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	130 MPa	18900 psi	ISO 527-1,-2
Elongation at Break	3.0 %	3.0 %	ISO 527-1,-2
Tensile Modulus	9.00 GPa	1310 ksi	ISO 527-1,-2
Flexural Strength	200 MPa @Strain 3.20 %	29000 psi @Strain 3.20 %	ISO 178
Flexural Modulus	9.10 GPa	1320 ksi	ISO 178
Izod Impact, Notched (ISO)	<= 10.0 kJ/m ² @Temperature 23.0 °C	<= 4.76 ft-lb/in ² @Temperature 73.4 °F	ISO 180-1A
Izod Impact, Unnotched (ISO)	55.0 kJ/m ² @Temperature 23.0 °C	26.2 ft-lb/in ² @Temperature 73.4 °F	ISO 180-1U
	55.0 kJ/m ² @Temperature -30.0 °C	26.2 ft-lb/in ² @Temperature -22.0 °F	ISO 180-1U

Charpy Impact Unnotched Mechanical Properties	6.50 J/cm ² Metric	30.9 ft-lb/in ² English	ISO 179-1eJ Comments
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Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	30.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	16.7 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-1,-2
CTE, linear, Transverse to Flow	140 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	77.8 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-1,-2
Melting Point	225 $\text{Å}^\circ\text{C}$	437 $\text{Å}^\circ\text{F}$	ISO 11357-1,-3
Deflection Temperature at 1.8 MPa (264 psi)	206 $\text{Å}^\circ\text{C}$	403 $\text{Å}^\circ\text{F}$	ISO 75-1,-2
Glow Wire Test	800 $\text{Å}^\circ\text{C}$	1470 $\text{Å}^\circ\text{F}$	GWFI; IEC 60695-2-12
	@Diameter 0.800 mm	@Diameter 0.0315 in	
	800 $\text{Å}^\circ\text{C}$	1470 $\text{Å}^\circ\text{F}$	
Glow Wire Test	800 $\text{Å}^\circ\text{C}$	1470 $\text{Å}^\circ\text{F}$	GWFI; IEC 60695-2-12
	@Diameter 1.50 mm	@Diameter 0.0591 in	
	800 $\text{Å}^\circ\text{C}$	1470 $\text{Å}^\circ\text{F}$	
Glow Wire Test	800 $\text{Å}^\circ\text{C}$	1470 $\text{Å}^\circ\text{F}$	GWFI; IEC 60695-2-12
	@Diameter 3.00 mm	@Diameter 0.118 in	
	825 $\text{Å}^\circ\text{C}$	1520 $\text{Å}^\circ\text{F}$	
Glow Wire Test	825 $\text{Å}^\circ\text{C}$	1520 $\text{Å}^\circ\text{F}$	GWIT; IEC 60695-2-13
	@Diameter 0.800 mm	@Diameter 0.0315 in	
	825 $\text{Å}^\circ\text{C}$	1520 $\text{Å}^\circ\text{F}$	
Glow Wire Test	825 $\text{Å}^\circ\text{C}$	1520 $\text{Å}^\circ\text{F}$	GWIT; IEC 60695-2-13
	@Diameter 1.50 mm	@Diameter 0.0591 in	
	825 $\text{Å}^\circ\text{C}$	1520 $\text{Å}^\circ\text{F}$	
Glow Wire Test	825 $\text{Å}^\circ\text{C}$	1520 $\text{Å}^\circ\text{F}$	GWIT; IEC 60695-2-13
	@Diameter 3.00 mm	@Diameter 0.118 in	
	0.10 %	0.10 %	
Shrinkage	@Temperature 120 $\text{Å}^\circ\text{C}$, Time 14400 sec	@Temperature 248 $\text{Å}^\circ\text{F}$, Time 4.00 hour	Molding Post-shrinkage; ISO 294-4
	0.10 %	0.10 %	Molding Post-shrinkage; ISO 294-4
Shrinkage	@Temperature 120 $\text{Å}^\circ\text{C}$, Time 14400 sec	@Temperature 248 $\text{Å}^\circ\text{F}$, Time 4.00 hour	Molding Post-shrinkage; ISO 294-4
	0.10 %	0.10 %	Molding Post-shrinkage; ISO 294-4

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	450 V	450 V	Solution A, Rating; IEC 60112

Processing Properties	Metric	English	Comments
Melt Temperature	260 $\text{Å}^\circ\text{C}$	500 $\text{Å}^\circ\text{F}$	Processing conditions for test specimens; ISO 294
	250 - 270 $\text{Å}^\circ\text{C}$	482 - 518 $\text{Å}^\circ\text{F}$	Recommended

Processing Properties	Metric °C	English	Comments
	80.0 - 100 °C	176 - 212 °F	Recommended
Drying Temperature	120 °C	248 °F	
Dry Time	4 - 8 hour	4 - 8 hour	
Moisture Content	0.00 - 0.020 %	0.00 - 0.020 %	Residual; Acc. To Karl Fischer

Descriptive Properties	Value	Comments
ISO Shortname	ISO 7792-1-PBT,GHMRW,09-100,GF30	

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