

Lanxess Pocan® TS 3220 901510 PBT + PET, 20% Glass Fiber

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , PBT + PET Blend, Glass Filled , Polyethylene Terephthalate (PET)

Material Notes:

PBT+PET, 20% glass fibers, injection molding, impact modified, low tendency to warp, improved surface finish

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lanxess-Pocan-TS-3220-901510-PBT-PET-20-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.364 g/cc	0.04928 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0040 cm/cm	0.0040 in/in	ISO 294-4, 2577
Linear Mold Shrinkage, Transverse	0.0070 cm/cm	0.0070 in/in	ISO 294-4, 2577
Melt Flow	25 g/10 min @Load 5.00 kg, Temperature 270 °C	25 g/10 min @Load 11.0 lb, Temperature 518 °F	Estimated using room temperature density; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	80.0 MPa	11600 psi	ISO 527-1/-2
Elongation at Break	3.5 %	3.5 %	ISO 527-1/-2
Tensile Modulus	5.60 GPa	812 ksi	ISO 527-1/-2
Charpy Impact Unnotched	6.00 J/cm ² @Temperature 23.0 °C	28.6 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eU
Impact	2.1	2.1	Puncture maximum force (N); ISO 6603-2
	1.6 @Temperature -30.0 °C	1.6 @Temperature -22.0 °F	Puncture maximum force (N); ISO 6603-2
Puncture Energy	2.70 J	1.99 ft-lb	ISO 6603-2
	1.80 J @Temperature -30.0 °C	1.33 ft-lb @Temperature -22.0 °F	ISO 6603-2

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	30.0 µm/m-°C	16.7 µin/in-°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	130 µm/m-°C	72.2 µin/in-°F	ISO 11359-1/-2
Melting Point	225 - 250 °C	437 - 482 °F	10°C/min; ISO 11357-1/-3

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	215 °C	419 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	155 °C	311 °F	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	72.0 °C	162 °F	ISO 75-1/-2
Vicat Softening Point	150 °C	302 °F	50°C/h 50N; ISO 306

Processing Properties	Metric	English	Comments
Melt Temperature	270 °C	518 °F	Injection Molding; ISO 294
Mold Temperature	90.0 °C	194 °F	Injection Molding; ISO 10724

Descriptive Properties	Value	Comments
Form	Pellets	
ISO Shortname	ISO 7792-1-PBT+PET,GHLMPP,09-060,GF20	
Processing	Injection molding	
Region	Asia Pacific	
	Europe	
	Near East/Africa	
	North America	
	South and Central America	

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