

Lanxess Pocan® ECO T 3220 000000 PBT + PET, 20% Glass Fiber

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

Material Notes:

PBT + PET, 20% glass fibers, injection molding, improved surface finish, contains 28% post-consumer recycled material, increased temperature peak load
Information provided by LANXESS.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lanxess-Pocan-ECO-T-3220-000000-PBT-PET-20-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.47 g/cc	1.47 g/cc	ISO 1183
Bulk Density	0.800 g/cc	0.0289 lb/in ³	ISO 60
Moisture Absorption at Equilibrium	0.20 %	0.20 %	50% RH; ISO 62
Water Absorption at Saturation	0.40 %	0.40 %	ISO 62
Linear Mold Shrinkage, Flow	0.0010 cm/cm	0.0010 in/in	Post-shrinkage, 60x60x2; 120°C; 4 hour; ISO 294-4
	0.0040 cm/cm	0.0040 in/in	60x60x2; 270°C / MT 90°C; 600 bar; ISO 294-4
Linear Mold Shrinkage, Transverse	0.0020 cm/cm	0.0020 in/in	Post-shrinkage, 60x60x2; 120°C; 4 hour; ISO 294-4
	0.010 cm/cm	0.010 in/in	60x60x2; 270°C / MT 90°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	ISO 1133-1

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	120 MPa	17400 psi	ISO 527-1, -2; 5 mm/min
Elongation at Break	3.2 %	3.2 %	ISO 527-1, -2; 5 mm/min
Tensile Modulus	7.50 GPa	1090 ksi	ISO 527-1, -2; 1 mm/min
Flexural Strength	195 MPa	28300 psi	2 mm/min; ISO 178-A
	@Strain 3.50 %	@Strain 3.50 %	
Flexural Modulus	7.50 GPa	1090 ksi	2 mm/min; ISO 178-A
Izod Impact, Notched (ISO)	<= 10.0 kJ/m ²	<= 4.76 ft-lb/in ²	ISO 180-1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Mechanical Properties	Metric	English	Comments
	@Temperature -30.0 °C	@Temperature -22.0 °F	ISO 180-1A
Izod Impact, Unnotched (ISO)	35.0 kJ/m ² @Temperature 23.0 °C	16.7 ft-lb/in ² @Temperature 73.4 °F	ISO 180-1U
	35.0 kJ/m ² @Temperature -30.0 °C	16.7 ft-lb/in ² @Temperature -22.0 °F	ISO 180-1U
Charpy Impact Unnotched	3.50 J/cm ² @Temperature -30.0 °C	16.7 ft-lb/in ² @Temperature -22.0 °F	ISO 179-1eU
	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 23.0 °C	<= 4.76 ft-lb/in ² @Temperature 73.4 °F	ISO 179-1eA
	<= 1.00 J/cm ² @Temperature -30.0 °C	<= 4.76 ft-lb/in ² @Temperature -22.0 °F	ISO 179-1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	30.0 µm/m-°C @Temperature 23.0 - 55.0 °C	16.7 µin/in-°F @Temperature 73.4 - 131 °F	ISO 11359-1, -2
CTE, linear, Transverse to Flow	90.0 µm/m-°C @Temperature 23.0 - 55.0 °C	50.0 µin/in-°F @Temperature 73.4 - 131 °F	ISO 11359-1, -2
Melting Point	225 - 250 °C	437 - 482 °F	10°C/min; ISO 11357-1, -3
Deflection Temperature at 0.46 MPa (66 psi)	220 °C	428 °F	ISO 75-1, -2
Deflection Temperature at 1.8 MPa (264 psi)	195 °C	383 °F	ISO 75-1, -2
Vicat Softening Point	210 °C @Load 5.10 kg	410 °F @Load 11.2 lb	120°C/hour; ISO 306

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	250 V	250 V	d.a.m.; Solution A; IEC 60112

Processing Properties	Metric	English	Comments
Melt Temperature	260 - 280 Â°C	500 - 536 Â°F	
	270 Â°C	518 Â°F	for test specimens; ISO 294
Mold Temperature	80.0 - 100 Â°C	176 - 212 Â°F	
	90.0 Â°C	194 Â°F	for test specimens; ISO 294
Drying Temperature	120 Â°C	248 Â°F	
Dry Time	4 - 8 hour	4 - 8 hour	
Moisture Content	0.00 - 0.020 %	0.00 - 0.020 %	residual; Karl Fischer Test

Descriptive Properties	Value	Comments
ISO Shortname	ISO 7792-1-PBT+PET, GHMR, 09-070, GF20	

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