Lanxess PocanÂ® T 7331 POS151 700226 PBT + PET, 30% Glass Fiber

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

Material Notes:

PBT + PET, 30% glass fibers, injection molding, improved surface finish, increased temperature peak load, UV stabilizedInformation provided by LANXESS.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Lanxess-Pocan-T-7331-POS151-700226-PBT-PET-30-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.55 g/cc	1.55 g/cc	ISO 1183
Bulk Density	0.800 g/cc	0.0289 lb/inÂ³	ISO 60
Moisture Absorption at Equilibrium	0.10 %	0.10 %	50% RH; ISO 62
Water Absorption at Saturation	0.30 %	0.30 %	ISO 62
Viscosity Test	91 cmÂ³/g	91 cmÂ³/g	Viscosity number; ISO 1628-5
Linear Mold Shrinkage, Flow	0.0010 cm/cm	0.0010 in/in	Post-shrinkage, 60x60x2; 120Â°C; 4 hour; ISO 294-4
	0.0030 cm/cm	0.0030 in/in	60x60x2; 270Â°C / MT 90Â°C; 600 bar; ISO 294-4
Linear Mold Shrinkage, Transverse	0.0020 cm/cm	0.0020 in/in	Post-shrinkage, 60x60x2; 120Â°C; 4 hour; ISO 294-4
	0.0090 cm/cm	0.0090 in/in	60x60x2; 270Â°C / MT 90Â°C; 600 bar; ISO 294-4
Melt Flow	30 g/10 min @Load 5.00 kg, Temperature 260 Â°C	30 g/10 min @Load 11.0 lb, Temperature 500 Â°F	ISO 1133-1

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	200 MPa	29000 psi	ISO 2039-1
Tensile Strength at Break	145 MPa	21000 psi	ISO 527-1, -2; 5 mm/min
Elongation at Break	2.8 %	2.8 %	ISO 527-1, -2; 5 mm/min
Tensile Modulus	10.4 GPa	1510 ksi	ISO 527-1, -2; 1 mm/min
Flexural Strength	230 MPa @Strain 3.00 %	33400 psi @Strain 3.00 %	2 mm/min; ISO 178-A
Flexural Modulus	10.3 GPa	1490 ksi	2 mm/min; ISO 178-A

Mechanical Properties	Metric	English	Comments
Izod Impact, Notched (ISO)	<= 10.0 kJ/mÂ² @Temperature 23.0 Â°C	<= 4.76 ft-lb/inÂ² @Temperature 73.4 Â°F	ISO 180-1A
	<= 10.0 kJ/mÂ² @Temperature -30.0 Â°C	<= 4.76 ft-lb/inÂ² @Temperature -22.0 Â°F	ISO 180-1A
	<= 10.0 kJ/mÂ² @Temperature -40.0 Â°C	<= 4.76 ft-lb/inÂ² @Temperature -40.0 Â°F	ISO 180-1A
Izod Impact, Unnotched (ISO)	55.0 kJ/mÂ² @Temperature 23.0 Â°C	26.2 ft-lb/inÂ² @Temperature 73.4 Â°F	ISO 180-1U
	55.0 kJ/mÂ² @Temperature -30.0 Â°C	26.2 ft-lb/inÂ² @Temperature -22.0 Â°F	ISO 180-1U
Charpy Impact Unnotched	5.50 J/cmÂ² @Temperature -30.0 Â°C	26.2 ft-lb/inÂ² @Temperature -22.0 Â°F	ISO 179-1eU
	6.50 J/cmÂ² @Temperature 23.0 Â°C	30.9 ft-lb/inÂ² @Temperature 73.4 Â°F	ISO 179-1eU
Charpy Impact, Notched	<= 1.00 J/cmÂ² @Temperature 23.0 Â°C	<= 4.76 ft-lb/inÂ² @Temperature 73.4 Â°F	ISO 179-1eA
	<= 1.00 J/cmÂ² @Temperature -30.0 Â°C	<= 4.76 ft-lb/inÂ² @Temperature -22.0 Â°F	ISO 179-1eA
Puncture Energy	2.10 J @Load <=66.3 kg, Temperature 23.0 Â°C	1.55 ft-lb @Load <=146 lb, Temperature 73.4 Â°F	ISO 6603-2
Tensile Creep Modulus, 1 hour	10000 MPa	1.45e+6 psi	ISO 899-1
Tensile Creep Modulus, 1000 hours	8500 MPa	1.23e+6 psi	ISO 899-1

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	30.0 Âµm/m-Â°C @Temperature 23.0 - 55.0 Â°C	16.7 Âµin/in-Â°F @Temperature 73.4 - 131 Â°F	ISO 11359-1, -2

Thermal Properties	Metric	English	Comments
CTE, linear, Transverse to Flow	60.0 Âµm/m-Â°C @Temperature 23.0 - 55.0 Â°C	33.3 Âµin/in-Â°F @Temperature 73.4 - 131 Â°F	ISO 11359-1, -2
Thermal Conductivity	0.270 W/m-K	1.87 BTU-in/hr-ftÂ²-Â°F	ISO 8302
Melting Point	225 - 250 Â°C	437 - 482 Â°F	10Â°C/min; ISO 11357-1, -3
Maximum Service Temperature, Air	140 Â°C	284 Â°F	IEC 60216-1, Tensile impact strength, 20000 h
	155 Â°C	311 Â°F	IEC 60216-1, Tensile strength, 20000 h
	155 Â°C	311 Â°F	IEC 60216-1, Electric strength, 20000 h
	220 Â°C	428 Â°F	Resistance to heat - ball pressure test; IEC 60695-10-2
Deflection Temperature at 0.46 MPa (66 psi)	220 Â°C	428 Â°F	ISO 75-1, -2
Deflection Temperature at 1.8 MPa (264 psi)	200 Â°C	392 Â°F	ISO 75-1, -2
Vicat Softening Point	205 Â°C @Load 5.10 kg	401 Â°F @Load 11.2 lb	120Â°C/hour; ISO 306
UL RTI, Electrical	140 Â°C	284 Â°F	UL 746B
UL RTI, Mechanical with Impact	125 Â°C	257 Â°F	UL 746B
UL RTI, Mechanical without Impact	140 Â°C	284 Â°F	UL 746B
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	
	HB @Thickness 0.800 mm	HB @Thickness 0.0315 in	
Oxygen Index	21 %	21 %	Method A; ISO 4589-2
Glow Wire Test	750 Â°C @Diameter 2.00 mm	1380 Â°F @Diameter 0.0787 in	GWFI; IEC 60695-2-12

Electrical Properties	Metric	English	Comments
Dielectric Constant	3.8 @Frequency 1.00e+6 Hz	3.8 @Frequency 1.00e+6 Hz	IEC 60250
	4.0	4.0	

Electrical Properties	Metric	English	Comments
	@Frequency 100 Hz	@Frequency 100 Hz	IEC 60250
Dielectric Strength	27.0 kV/mm @Thickness 1.00 mm	686 kV/in @Thickness 0.0394 in	IEC 60243-1
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
Electrolytic Corrosion	IEC 60426	A 1
Halving Interval (Â°C)	10.2	IEC 60216-1, Tensile strength
	10.2	IEC 60216-1, Electric strength
	13.5	IEC 60216-1, Tensile impact strength
ISO Shortname	ISO 7792-1-PBT+PET, GHIMR, 09-100, GF30	

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