

Lanxess Pocan® T 7331 000000 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

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lanxess-Pocan-T-7331-000000-PBT-PET-30-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.55 g/cc	0.0560 lb/in ³	ISO 1183
Water Absorption	0.30 %	0.30 %	Test Sim. to ISO 62
Moisture Absorption at Equilibrium	0.10 %	0.10 %	23 ^o C/50% R.H.; Test Sim. to ISO 62
Viscosity Test	91 cm ³ /g	91 cm ³ /g	Viscosity number; ISO 307, 1157, 1628
Melt Flow	38 g/10 min @Load 5.00 kg, Temperature 260 ^o C	38 g/10 min @Load 11.0 lb, Temperature 500 ^o F	Calculated from MVR using melt density; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	130 MPa	18900 psi	ISO 527-1/-2
Elongation at Break	2.5 %	2.5 %	ISO 527-1/-2
Tensile Modulus	10.5 GPa	1520 ksi	ISO 527-1/-2
Charpy Impact Unnotched	5.50 J/cm ²	26.2 ft-lb/in ²	ISO 179/1eU
	@Temperature -30.0 ^o C	@Temperature -22.0 ^o F	
Charpy Impact Unnotched	6.00 J/cm ²	28.6 ft-lb/in ²	ISO 179/1eU
	@Temperature 23.0 ^o C	@Temperature 73.4 ^o F	
Charpy Impact, Notched	<= 1.00 J/cm ²	<= 4.76 ft-lb/in ²	ISO 179/1eA
	@Temperature -30.0 ^o C	@Temperature -22.0 ^o F	
Charpy Impact, Notched	<= 1.00 J/cm ²	<= 4.76 ft-lb/in ²	ISO 179/1eA
	@Temperature 23.0 ^o C	@Temperature 73.4 ^o F	
Impact	650	650	Puncture maximum force (N); ISO 6603-2

Puncture Energy Mechanical Properties	2.10 J Metric	1.55 ft-lb English	ISO 6603-2 Comments
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 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	16.7 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-1/-2
CTE, linear, Transverse to Flow	60.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	33.3 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-1/-2
Melting Point	225 - 250 $\text{Å}^\circ\text{C}$	437 - 482 $\text{Å}^\circ\text{F}$	10 $\text{Å}^\circ\text{C}/\text{min}$; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	220 $\text{Å}^\circ\text{C}$	428 $\text{Å}^\circ\text{F}$	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	205 $\text{Å}^\circ\text{C}$	401 $\text{Å}^\circ\text{F}$	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	100 $\text{Å}^\circ\text{C}$	212 $\text{Å}^\circ\text{F}$	ISO 75-1/-2
Vicat Softening Point	210 $\text{Å}^\circ\text{C}$	410 $\text{Å}^\circ\text{F}$	50 $\text{Å}^\circ\text{C}/\text{h}$ 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	
Oxygen Index	21 %	21 %	ISO 4589-1/-2

Electrical Properties	Metric	English	Comments
Volume Resistivity	$\geq 1.00\text{e}+15$ ohm-cm	$\geq 1.00\text{e}+15$ ohm-cm	IEC 60093
Surface Resistance	$\geq 1.00\text{e}+15$ ohm	$\geq 1.00\text{e}+15$ ohm	IEC 60093
Dielectric Constant	3.8	3.8	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	4.0	4.0	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	27.0 kV/mm	686 kV/in	IEC 60243-1
Dissipation Factor	0.0018	0.0018	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.017	0.017	

Electrical Properties	@Frequency 1.00e+6 Metric Hz	@Frequency 1.00e+6 English Hz	IEC 60250 Comments
Comparative Tracking Index	225 V	225 V	IEC 60112

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

Descriptive Properties	Value	Comments
Additives	Release agent	
Features	Heat stabilized or stable to heat	
Form	Pellets	
ISO Shortname	ISO 7792-1-PBT+PET,GHMR,09-100,GF30	
Processing	Injection molding	
Region	Asia Pacific	
	Europe	
	Near East/Africa	
	North America	
	South and Central America	

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