

Lanxess Pocan® T 7391 000000 PBT + PET, 45% Glass Fiber

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

Material Notes:

PBT+PET, 45% 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-7391-000000-PBT-PET-45-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.67 g/cc	0.0603 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	80 cm ³ /g	80 cm ³ /g	Viscosity number; ISO 307, 1157, 1628
Melt Flow	42 g/10 min @Load 5.00 kg, Temperature 260 ^o C	42 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	165 MPa	23900 psi	ISO 527-1/-2
Elongation at Break	1.7 %	1.7 %	ISO 527-1/-2
Tensile Modulus	17.0 GPa	2470 ksi	ISO 527-1/-2
Charpy Impact Unnotched	7.00 J/cm ² @Temperature -30.0 ^o C	33.3 ft-lb/in ² @Temperature -22.0 ^o F	ISO 179/1eU
	7.00 J/cm ² @Temperature 23.0 ^o C	33.3 ft-lb/in ² @Temperature 73.4 ^o F	ISO 179/1eU
Charpy Impact, Notched	1.10 J/cm ² @Temperature -30.0 ^o C	5.23 ft-lb/in ² @Temperature -22.0 ^o F	ISO 179/1eA
	1.20 J/cm ² @Temperature 23.0 ^o C	5.71 ft-lb/in ² @Temperature 73.4 ^o F	ISO 179/1eA
Impact	775	775	Puncture maximum force (N); ISO 6603-2

Puncture Energy Mechanical Properties	3.50 J Metric	2.58 ft-lb English	ISO 6603-2 Comments
Tensile Creep Modulus, 1 hour	16500 MPa	2.39e+6 psi	ISO 899-1
Tensile Creep Modulus, 1000 hours	15000 MPa	2.18e+6 psi	ISO 899-1

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	20.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	11.1 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-1/-2
CTE, linear, Transverse to Flow	50.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	27.8 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	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)	225 $\text{Å}^\circ\text{C}$	437 $\text{Å}^\circ\text{F}$	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	210 $\text{Å}^\circ\text{C}$	410 $\text{Å}^\circ\text{F}$	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	150 $\text{Å}^\circ\text{C}$	302 $\text{Å}^\circ\text{F}$	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	4.2	4.2	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	4.3	4.3	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	28.0 kV/mm	711 kV/in	IEC 60243-1
Dissipation Factor	0.0020	0.0020	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.014	0.014	

Electrical Properties	@Frequency 1.00e+6 Metric Hz	@Frequency 1.00e+6 English Hz	IEC 60250 Comments
Comparative Tracking Index	275 V	275 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,09-160,GF45	
Processing	Injection molding	
Region	Asia Pacific	
	Europe	
	Near East/Africa	
	North America	
	South and Central America	

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