

Lanxess Pocan® B 3225 901510 PBT, 20% Glass Fiber

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), 20% Glass Fiber Filled

Material Notes:

PBT, 20% glass fibers, injection molding

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lanxess-Pocan-B-3225-901510-PBT-20-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.46 g/cc	0.0527 lb/in ³	ISO 1183
Water Absorption	0.40 %	0.40 %	Test Sim. to ISO 62
Moisture Absorption at Equilibrium	0.20 %	0.20 %	23 ^o C/50% R.H.; Test Sim. to ISO 62
Viscosity Test	100 cm ³ /g	100 cm ³ /g	Viscosity number; ISO 307, 1157, 1628
Melt Flow	26 g/10 min @Load 2.16 kg, Temperature 260 ^o C	26 g/10 min @Load 4.76 lb, Temperature 500 ^o F	Calculated from MVR using melt density; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	120 MPa	17400 psi	ISO 527-1/-2
Elongation at Break	2.6 %	2.6 %	ISO 527-1/-2
Tensile Modulus	7.00 GPa	1020 ksi	ISO 527-1/-2
Charpy Impact Unnotched	4.50 J/cm ² @Temperature -30.0 ^o C	21.4 ft-lb/in ² @Temperature -22.0 ^o F	ISO 179/1eU
	5.00 J/cm ² @Temperature 23.0 ^o C	23.8 ft-lb/in ² @Temperature 73.4 ^o F	ISO 179/1eU
Charpy Impact, Notched	<= 1.00 J/cm ² @Temperature -30.0 ^o C	<= 4.76 ft-lb/in ² @Temperature -22.0 ^o F	ISO 179/1eA
	<= 1.00 J/cm ² @Temperature 23.0 ^o C	<= 4.76 ft-lb/in ² @Temperature 73.4 ^o F	ISO 179/1eA
Puncture Energy	2.10 J	1.55 ft-lb	ISO 6603-2
Tensile Creep Modulus, 1 hour	6900 MPa	1.00e+6 psi	ISO 899-1

Mechanical 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	90.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	50.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-1/-2
Melting Point	225 $\text{Å}^\circ\text{C}$	437 $\text{Å}^\circ\text{F}$	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)	210 $\text{Å}^\circ\text{C}$	410 $\text{Å}^\circ\text{F}$	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	140 $\text{Å}^\circ\text{C}$	284 $\text{Å}^\circ\text{F}$	ISO 75-1/-2
Vicat Softening Point	215 $\text{Å}^\circ\text{C}$	419 $\text{Å}^\circ\text{F}$	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	20 %	20 %	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	3.6	3.6	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	3.8	3.8	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	28.0 kV/mm	711 kV/in	IEC 60243-1
Dissipation Factor	0.0030	0.0030	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.021	0.021	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Comparative Tracking Index	350 V	350 V	IEC 60112

Processing Properties	Metric	English	Comments
Melt Temperature	260 Â°C	500 Â°F	Injection Molding; ISO 294
Mold Temperature	80.0 Â°C	176 Â°F	Injection Molding; ISO 10724

Descriptive Properties	Value	Comments
Additives	Release agent	
Form	Pellets	
ISO Shortname	ISO 7792-PBT,MHMR,11-070,GF20	
Processing	Injection molding	
Region	Asia Pacific	
	Europe	
	Near East/Africa	
	North America	
	South and Central America	

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