

Lanxess Pocan® B 1501 000000 PBT

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), Extrusion Grade , Polybutylene Terephthalate (PBT), Unreinforced, Molded

Material Notes:

PBT, non-reinforced, injection molding, extrusion, food contact

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lanxess-Pocan-B-1501-000000-PBT.php

Physical Properties	Metric	English	Comments
Density	1.30 g/cc	0.0470 lb/in ³	ISO 1183
Water Absorption	0.50 %	0.50 %	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	140 cm ³ /g	140 cm ³ /g	Viscosity number; ISO 307, 1157, 1628
Melt Flow	20 g/10 min @Load 2.16 kg, Temperature 260 ^o C	20 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, Yield	60.0 MPa	8700 psi	ISO 527-1/-2
Elongation at Break	>= 50 %	>= 50 %	Nominal; ISO 527-1/-2
Elongation at Yield	4.0 %	4.0 %	ISO 527-1/-2
Tensile Modulus	2.60 GPa	377 ksi	ISO 527-1/-2
Charpy Impact Unnotched	20.0 J/cm ²	95.2 ft-lb/in ²	ISO 179/1eU
	@Temperature -30.0 ^o C	@Temperature -22.0 ^o F	
Charpy Impact, Notched	NB	NB	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	
Impact	<= 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	3563	3563	Puncture maximum force (N); ISO

Mechanical Properties	Metric	English	6603-2 Comments
Puncture Energy	43.0 J	31.7 ft-lb	ISO 6603-2
Tensile Creep Modulus, 1 hour	2200 MPa	319000 psi	ISO 899-1
Tensile Creep Modulus, 1000 hours	1300 MPa	189000 psi	ISO 899-1

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	120 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	66.7 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-1/-2
CTE, linear, Transverse to Flow	110 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	61.1 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	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)	160 $\text{Å}^\circ\text{C}$	320 $\text{Å}^\circ\text{F}$	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	60.0 $\text{Å}^\circ\text{C}$	140 $\text{Å}^\circ\text{F}$	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	45.0 $\text{Å}^\circ\text{C}$	113 $\text{Å}^\circ\text{F}$	ISO 75-1/-2
Vicat Softening Point	180 $\text{Å}^\circ\text{C}$	356 $\text{Å}^\circ\text{F}$	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	24 %	24 %	ISO 4589-1/-2

Electrical Properties	Metric	English	Comments
Volume Resistivity	$\geq 1.00\text{e}+14$ ohm-cm	$\geq 1.00\text{e}+14$ ohm-cm	IEC 60093
Surface Resistance	$\geq 1.00\text{e}+15$ ohm	$\geq 1.00\text{e}+15$ ohm	IEC 60093
Dielectric Constant	3.2	3.2	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	3.4	3.4	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	27.0 kV/mm	686 kV/in	IEC 60243-1
Dissipation Factor	0.0015	0.0015	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	

Electrical Properties	0.019 Metric	0.019 English	Comments IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Comparative Tracking Index	600 V	600 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 7792-1-PBT,GR,11-030	
Processing	Injection molding	
Region	Asia Pacific	
	Europe	
	Near East/Africa	
	North America	
	South and Central America	

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