

Lanxess Pocan® S 1517 000000 PBT

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

Material Notes:

PBT, non-reinforced, injection molding, extrusion, impact modified

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lanxess-Pocan-S-1517-000000-PBT.php

Physical Properties	Metric	English	Comments
Density	1.26 g/cc	0.0455 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
Melt Flow	34 g/10 min @Load 5.00 kg, Temperature 260 ^o C	34 g/10 min @Load 11.0 lb, Temperature 500 ^o F	Estimated using room temperature density; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	45.0 MPa	6530 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	2.00 GPa	290 ksi	ISO 527-1/-2
Charpy Impact Unnotched	NB @Temperature -30.0 ^o C	NB @Temperature -22.0 ^o F	ISO 179/1eU
	NB @Temperature 23.0 ^o C	NB @Temperature 73.4 ^o F	ISO 179/1eU
Charpy Impact, Notched	1.50 J/cm ² @Temperature -30.0 ^o C	7.14 ft-lb/in ² @Temperature -22.0 ^o F	ISO 179/1eA
	6.00 J/cm ² @Temperature 23.0 ^o C	28.6 ft-lb/in ² @Temperature 73.4 ^o F	ISO 179/1eA
Tensile Creep Modulus, 1 hour	1650 MPa	239000 psi	ISO 899-1
Tensile Creep Modulus, 1000 hours	1000 MPa	145000 psi	ISO 899-1

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	130 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	72.2 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-1/-2
CTE, linear, Transverse to Flow	130 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	72.2 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	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)	120 $\text{Å}^\circ\text{C}$	248 $\text{Å}^\circ\text{F}$	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
Vicat Softening Point	140 $\text{Å}^\circ\text{C}$	284 $\text{Å}^\circ\text{F}$	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	22 %	22 %	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	3.1	3.1	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	3.2	3.2	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	30.0 kV/mm	762 kV/in	IEC 60243-1
Dissipation Factor	0.0020	0.0020	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.019	0.019	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	250 $\text{Å}^\circ\text{C}$	482 $\text{Å}^\circ\text{F}$	Injection Molding; ISO 294

Processing Properties	Metric 	English	Comments 
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Descriptive Properties	Value	Comments
Additives	Release agent	
Features	High impact or high impact modified	
Form	Pellets	
ISO Shortname	ISO 7792-1-PBT,GHPR,11-020	
Processing	Injection molding	
Region	Asia Pacific	
	Europe	
	Near East/Africa	
	North America	
	South and Central America	

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