

Lanxess Pocan® DP 7318 000000 PBT, 17% Pigment

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT)

Material Notes:

PBT, 17% white pigments, injection molding, improved light reflection, low tendency to warp
Information provided by LANXESS.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lanxess-Pocan-DP-7318-000000-PBT-17-Pigment.php

Physical Properties	Metric	English	Comments
Bulk Density	0.900 g/cc	0.0325 lb/in ³	ISO 60
Density	1.50 g/cc	0.0542 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.20 %	0.20 %	50% RH; ISO 62
Water Absorption at Saturation	0.40 %	0.40 %	ISO 62
Viscosity Test	94 cm ³ /g	94 cm ³ /g	ISO 1628-5
Linear Mold Shrinkage, Flow	0.019 cm/cm	0.019 in/in	150x105x3, 260°C / MT 80°C; 500 bar; acc. ISO 2577
Linear Mold Shrinkage, Transverse	0.019 cm/cm	0.019 in/in	150x105x3, 260°C / MT 80°C; 500 bar; acc. ISO 2577
Melt Flow	40.5 g/10 min @Load 2.16 kg, Temperature 260 °C	40.5 g/10 min @Load 4.76 lb, Temperature 500 °F	ISO 1133-1

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	57.0 MPa	8270 psi	5 mm/min; ISO 527-1,-2
Elongation at Break	10 %	10 %	5 mm/min; ISO 527-1,-2
Tensile Modulus	3.40 GPa	493 ksi	1 mm/min; ISO 527-1,-2
Flexural Strength	95.0 MPa	13800 psi	2 mm/min; ISO 178-A
Flexural Modulus	3.20 GPa	464 ksi	2 mm/min; ISO 178-A
Izod Impact, Notched (ISO)	<= 10.0 kJ/m ² @Temperature 23.0 °C	<= 4.76 ft-lb/in ² @Temperature 73.4 °F	ISO 180-1A
Izod Impact, Unnotched (ISO)	110 kJ/m ² @Temperature 23.0 °C	52.3 ft-lb/in ² @Temperature 73.4 °F	ISO 180-1U
Charpy Impact Unnotched	12.5 J/cm ²	59.5 ft-lb/in ²	ISO 179-1eU

Mechanical Properties	Metric	English	Comments
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Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	90.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Temperature 23.0 - 55.0 $\text{Å}^\circ\text{C}$	50.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @Temperature 73.4 - 131 $\text{Å}^\circ\text{F}$	ISO 11359-1,-2
CTE, linear, Transverse to Flow	90.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Temperature 23.0 - 55.0 $\text{Å}^\circ\text{C}$	50.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @Temperature 73.4 - 131 $\text{Å}^\circ\text{F}$	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
Vicat Softening Point	190 $\text{Å}^\circ\text{C}$	374 $\text{Å}^\circ\text{F}$	50 N; 50 $\text{Å}^\circ\text{C}/\text{h}$; ISO 306
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	
	HB @Thickness 0.800 mm	HB @Thickness 0.0315 in	
Shrinkage	0.200 % @Temperature 120 $\text{Å}^\circ\text{C}$, Time 14400 sec	0.200 % @Temperature 248 $\text{Å}^\circ\text{F}$, Time 4.00 hour	post-shrinkage, 150x105x3; acc. ISO 2577
	0.200 % @Temperature 120 $\text{Å}^\circ\text{C}$, Time 14400 sec	0.200 % @Temperature 248 $\text{Å}^\circ\text{F}$, Time 4.00 hour	post-shrinkage, transverse, 150x105x3; acc. ISO 2577

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	600 V	600 V	Solution A; UL 746A

Processing Properties	Metric	English	Comments
Melt Temperature	260 $\text{Å}^\circ\text{C}$	500 $\text{Å}^\circ\text{F}$	Injection molding; ISO 294
Mold Temperature	80.0 $\text{Å}^\circ\text{C}$	176 $\text{Å}^\circ\text{F}$	Injection molding; ISO 294
Dry Time	4.00 - 8.00 hour @Temperature 120 $\text{Å}^\circ\text{C}$	4.00 - 8.00 hour @Temperature 248 $\text{Å}^\circ\text{F}$	
Moisture Content	0.00 - 0.020 %	0.00 - 0.020 %	Karl Fischer test

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