

SABIC Innovative Plastics LNP Stat-loy W3000 PBT

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

Material Notes:

LNP STAT-LOY* W3000 is a compound based on Polybutylene Terephthalate resin containing Anti-Static. Added features of this material include: Antistat. This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Stat-loy-W3000-PBT.php

Physical Properties	Metric	English	Comments
Density	1.27 g/cc	0.0459 lb/in ³	ASTM D 792
	1.27 g/cc	0.0459 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	1.09 %	1.09 %	23°C / 50% RH; ISO 62
	0.65 %	0.65 %	50% RH; ASTM D 570
Linear Mold Shrinkage, Flow	@Time 86400 sec	@Time 24.0 hour	
	0.017 cm/cm	0.017 in/in	ASTM D 955
Linear Mold Shrinkage, Transverse	@Time 86400 sec	@Time 24.0 hour	
	0.0174 cm/cm	0.0174 in/in	ISO 294
Linear Mold Shrinkage, Transverse	@Time 86400 sec	@Time 24.0 hour	
	0.0199 cm/cm	0.0199 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.020 cm/cm	0.020 in/in	ASTM D 955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	37.0 MPa	5370 psi	ISO 527
	40.0 MPa	5800 psi	ASTM D 638
Tensile Strength, Yield	37.0 MPa	5370 psi	ISO 527
	41.0 MPa	5950 psi	ASTM D 638
Elongation at Break	12.7 %	12.7 %	ISO 527
	14.6 %	14.6 %	ASTM D 638
Elongation at Yield	8.2 %	8.2 %	ASTM D 638
	10.9 %	10.9 %	ISO 527

Mechanical Properties	Metric	English	Comments
Tensile Modulus	1.63 GPa	236 ksi	50 mm/min; ASTM D 638
	1.63 GPa	236 ksi	1 mm/min; ISO 527
Flexural Strength	58.0 MPa	8410 psi	ISO 178
	59.0 MPa	8560 psi	ASTM D 790
Flexural Modulus	1.64 GPa	238 ksi	ISO 178
	1.72 GPa	249 ksi	ASTM D 790
Izod Impact, Notched	0.580 J/cm @Temperature 23.0 Â°C	1.09 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Unnotched	12.54 J/cm @Temperature 23.0 Â°C	23.49 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812
Izod Impact, Notched (ISO)	6.00 kJ/mÂ² @Temperature 23.0 Â°C	2.86 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	137 kJ/mÂ² @Temperature 23.0 Â°C	65.2 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U
Impact Test	3.00 J	2.21 ft-lb	Multiaxial Impact; ISO 6603
	32.0 J @Temperature 23.0 Â°C	23.6 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Energy @ peak; ASTM D 3763

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	46.0 Â°C @Thickness 3.20 mm	115 Â°F @Thickness 0.126 in	unannealed; ASTM D 648

Electrical Properties	Metric	English	Comments
Surface Resistance	1.00e+9 - 1.00e+11 ohm	1.00e+9 - 1.00e+11 ohm	ASTM D 257

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