

SABIC Innovative Plastics LNP Stat-kon WFD059 PBT

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), Glass Fiber Filled, Flame Retardant

Material Notes:

LNP* Stat-kon* WFD059 is a compound based on Polybutylene Terephthalate resin containing Glass Fiber, Flame Retardant. Added features of this material include: Flame Retardant. 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-kon-WFD059-PBT.php

Physical Properties	Metric	English	Comments
Density	1.60 g/cc	0.0578 lb/in ³	ISO 1183
	1.61 g/cc	0.0582 lb/in ³	ASTM D 792
Moisture Absorption at Equilibrium	0.060 %	0.060 %	50% RH; ASTM D 570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0056 cm/cm	0.0056 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0060 cm/cm	0.0060 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.013 cm/cm	0.013 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
	0.013 cm/cm	0.013 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	90.0 MPa	13100 psi	ASTM D 638
Tensile Strength, Yield	90.0 MPa	13100 psi	ASTM D 638
Elongation at Break	1.5 %	1.5 %	ASTM D 638
Elongation at Yield	1.5 %	1.5 %	ASTM D 638
Tensile Modulus	8.96 GPa	1300 ksi	50 mm/min; ASTM D 638
Flexural Strength	124 MPa	18000 psi	ASTM D 790
	135 MPa	19600 psi	ISO 178
Flexural Modulus	8.00 GPa	1160 ksi	ISO 178

Mechanical Properties	8.27 GPa Metric	1200 ksi English	ASTM D 790 Comments
Izod Impact, Notched	0.530 J/cm @Temperature 23.0 Â°C	0.993 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Unnotched	3.73 J/cm @Temperature 23.0 Â°C	6.99 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812
Izod Impact, Notched (ISO)	4.00 kJ/mÂ² @Temperature 23.0 Â°C	1.90 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	23.0 kJ/mÂ² @Temperature 23.0 Â°C	10.9 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U
Impact Test	4.00 J @Temperature 23.0 Â°C	2.95 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Energy @ peak; ASTM D 3763

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	218 Â°C	424 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	218 Â°C @Thickness 3.20 mm	424 Â°F @Thickness 0.126 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	198 Â°C	388 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	201 Â°C @Thickness 3.20 mm	394 Â°F @Thickness 0.126 in	unannealed; ASTM D 648

Electrical Properties	Metric	English	Comments
Surface Resistance	1000 ohm - 1e+05	1000 ohm - 1e+05	ASTM D 257

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