

SABIC Innovative Plastics LNP STAT-KON ZE0039 PPO

Category : Polymer , Thermoplastic , Polyphenylene Ether/PPO

Material Notes:

LNP* STAT-KON* ZE0039 is a compound based on PPO resin containing 15% Carbon Fiber. Added features of this grade includes: Flame Retardant, Electrically Conductive.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-ZE0039-PPO.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in ³	ISO 1183
	1.21 g/cc	0.0437 lb/in ³	ASTM D792
Moisture Absorption	0.100 %	0.100 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.00080 cm/cm	0.00080 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0010 - 0.0020 cm/cm	0.0010 - 0.0020 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0030 cm/cm	0.0030 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	105 MPa	15200 psi	ISO 527
	112 MPa	16200 psi	ASTM D638
Tensile Strength, Yield	105 MPa	15200 psi	ISO 527
	112 MPa	16200 psi	ASTM D638
Elongation at Break	1.0 %	1.0 %	ISO 527
	1.2 %	1.2 %	ASTM D638
Elongation at Yield	1.0 %	1.0 %	ISO 527
	1.2 %	1.2 %	ASTM D638
Tensile Modulus	10.97 GPa	1591 ksi	1 mm/min; ISO 527

Mechanical Properties	11.72 GPa Metric	1700 ksi English	50 mm/min; ASTM D638 Comments
Flexural Strength	117 MPa	17000 psi	ASTM D790
	150 MPa	21800 psi	ISO 178
Flexural Modulus	8.96 GPa	1300 ksi	ASTM D790
	10.6 GPa	1540 ksi	ISO 178
Izod Impact, Notched	0.480 J/cm	0.899 ft-lb/in	ASTM D256
Izod Impact, Unnotched	2.67 J/cm	5.00 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	5.00 kJ/mÂ²	2.38 ft-lb/inÂ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	18.0 kJ/mÂ²	8.57 ft-lb/inÂ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	11.0 J	8.11 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	46.8 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	26.0 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
	47.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	26.1 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
CTE, linear, Transverse to Flow	28.8 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	16.0 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
	29.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	16.1 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	113 Â°C	235 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	112 Â°C @Thickness 3.20 mm	234 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	106 Â°C	223 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	103 Â°C @Thickness 3.20 mm	217 Â°F @Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
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Electrical Properties

Metric 10000 ohm

English 10000 ohm

Comments

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