

SABIC Innovative Plastics LNP Stat-kon ZE0039 MODIFIED POYPHENYLENE

Category : Polymer , Thermoplastic

Material Notes:

LNP* Stat-kon* ZE0039 is a compound based on MODIFIED POYPHENYLENE resin containing Carbon Fiber. 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-ZE0039-MODIFIED-POYPHENYLENE.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 D 792
Moisture Absorption at Equilibrium	0.10 %	0.10 %	50% RH; ASTM D 570
	@Time 86400 sec	@Time 24.0 hour	
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 D 955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	ASTM D 955
	@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 D 638
Tensile Strength, Yield	105 MPa	15200 psi	ISO 527
	112 MPa	16200 psi	ASTM D 638
Elongation at Break	1.0 %	1.0 %	ISO 527
	1.2 %	1.2 %	ASTM D 638
Elongation at Yield	1.0 %	1.0 %	ISO 527
	1.2 %	1.2 %	ASTM D 638
Tensile Modulus	10.97 GPa	1591 ksi	1 mm/min; ISO 527

Mechanical Properties	Metric 11.72 GPa	English 1700 ksi	Comments 50 mm/min; ASTM D 638
Flexural Strength	117 MPa	17000 psi	ASTM D 790
	150 MPa	21800 psi	ISO 178
Flexural Modulus	8.96 GPa	1300 ksi	ASTM D 790
	10.6 GPa	1540 ksi	ISO 178
Izod Impact, Notched	0.480 J/cm @Temperature 23.0 Â°C	0.899 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Unnotched	2.67 J/cm @Temperature 23.0 Â°C	5.00 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812
Izod Impact, Notched (ISO)	5.00 kJ/mÂ² @Temperature 23.0 Â°C	2.38 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	18.0 kJ/mÂ² @Temperature 23.0 Â°C	8.57 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U
Impact Test	11.0 J @Temperature 23.0 Â°C	8.11 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Energy @ peak; ASTM D 3763

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

Thermal Properties	Metric	English	Comments
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D 648
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	217 Â°F	unannealed; ASTM D 648
	@Thickness 3.20 mm	@Thickness 0.126 in	

Electrical Properties	Metric	English	Comments
Surface Resistance	100 - 10000 ohm	100 - 10000 ohm	ASTM D 257

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China