

SABIC Innovative Plastics LNP Stat-kon ZE004 MODIFIED POYPHENYLENE (Asia Pacific)

Category : Polymer , Thermoplastic

Material Notes:

LNP* Stat-kon* ZE004 is a compound based on MODIFIED POYPHENYLENE resin containing Carbon Fiber. This data was supplied by SABIC-IP for the Asia Pacific region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Stat-kon-ZE004-MODIFIED-POYPHENYLENE-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	1.17 g/cc	0.0423 lb/in ³	ASTM D 792
	1.17 g/cc	0.0423 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	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	
Linear Mold Shrinkage, Transverse	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
	0.0053 cm/cm	0.0053 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	103 MPa	14900 psi	ISO 527
	104 MPa	15100 psi	ASTM D 638
Tensile Strength, Yield	54.0 MPa	7830 psi	ISO 527
	80.0 MPa	11600 psi	ASTM D 638
Elongation at Break	0.50 %	0.50 %	ASTM D 638
	0.90 %	0.90 %	ISO 527
Tensile Modulus	14.72 GPa	2135 ksi	1 mm/min; ISO 527
	24.82 GPa	3600 ksi	50 mm/min; ASTM D 638
Flexural Strength	151 MPa	21900 psi	ISO 178
	179 MPa	26000 psi	ASTM D 790

Mechanical Properties Flexural Modulus	Metric 12.7 GPa	English 1800 ksi	Comments ISO 178
	24.13 GPa	3500 ksi	ASTM D 790
Izod Impact, Notched	0.370 J/cm @Temperature 23.0 Â°C	0.693 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Unnotched	2.99 J/cm @Temperature 23.0 Â°C	5.60 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)	17.0 kJ/mÂ² @Temperature 23.0 Â°C	8.09 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	48.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	26.7 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
	48.6 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	27.0 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
CTE, linear, Transverse to Flow	36.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	20.0 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
	37.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	20.6 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	141 Â°C	286 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	139 Â°C @Thickness 3.20 mm	282 Â°F @Thickness 0.126 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	135 Â°C	275 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	137 Â°C @Thickness 3.20 mm	279 Â°F @Thickness 0.126 in	unannealed; ASTM D 648

Electrical Properties	Metric	English	Comments
Surface Resistance	100 - 1.00e+6 ohm	100 - 1.00e+6 ohm	ASTM D 257

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