

SABIC Innovative Plastics LNP STAT-KON ZX08301 PPE (Asia Pacific)

Category : Polymer , Thermoplastic , Polyphenylene Ether/PPO

Material Notes:

Stat-Kon® ZX08301 compound is a high heat compounds with ESD safe and low warpage performance suitable for use in Semiconductor Packaging Applications.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-ZX08301-PPE-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	1.29 g/cc	0.0466 lb/in ³	ASTM D792
Linear Mold Shrinkage, Flow	0.0020 - 0.0035 cm/cm @Time 86400 sec	0.0020 - 0.0035 in/in @Time 24.0 hour	ASTM D955
Linear Mold Shrinkage, Transverse	0.0030 - 0.0045 cm/cm @Time 86400 sec	0.0030 - 0.0045 in/in @Time 24.0 hour	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	120 MPa	17400 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	1.8 %	1.8 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	11.0 GPa	1600 ksi	5 mm/min; ASTM D638
Flexural Strength	162 MPa	23500 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	9.00 GPa	1310 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.460 J/cm	0.862 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	14.0 Åµm/m-Å°C @Temperature -40.0 - 40.0 Å°C	7.78 Åµin/in-Å°F @Temperature -40.0 - 104 Å°F	ASTM E 831
CTE, linear, Transverse to Flow	56.0 Åµm/m-Å°C @Temperature -40.0 - 40.0 Å°C	31.1 Åµin/in-Å°F @Temperature -40.0 - 104 Å°F	ASTM E 831
Deflection Temperature at 0.46 MPa (66 psi)	200 Å°C @Thickness 3.20 mm	392 Å°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa	194 Å°C	381 Å°F	

Thermal Properties <small>(264 psi)</small>	Metric <small>@ Thickness 3.20 mm</small>	English <small>@ Thickness 0.126 in</small>	unannealed; ASTM D648 Comments
Electrical Properties	Metric	English	Comments
Volume Resistivity	550000 - 750000 ohm-cm	550000 - 750000 ohm-cm	ASTM D257
Surface Resistance	110000 - 250000 ohm	110000 - 250000 ohm	ASTM D257
Static Decay	0.10 sec	0.10 sec	5000V to <50V; FTMS101B

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