

SABIC Innovative Plastics LNP STAT-KON 9X06519 Cyclic Olefinic Copolymer

Category : Polymer , Thermoplastic , Cyclo Olefin Polymer

Material Notes:

LNP STAT-KON* 9X06519 is a compound based on Cyclic Olefinic Copolymer resin containing 30% Carbon Fiber. Added features of this material include: Clean Compounding System, Electrically Conductive.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-9X06519-Cyclic-Olefinic-Copolymer.php

Physical Properties	Metric	English	Comments
Density	1.17 g/cc	0.0423 lb/in ³	ASTM D792

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	74.0 MPa	10700 psi	ASTM D638
Elongation at Break	0.50 %	0.50 %	ASTM D638
Tensile Modulus	16.04 GPa	2326 ksi	50 mm/min; ASTM D638
Flexural Strength	158 MPa	22900 psi	ASTM D790
Flexural Modulus	16.68 GPa	2419 ksi	ASTM D790
Izod Impact, Notched	0.320 J/cm	0.599 ft-lb/in	ASTM D256
Izod Impact, Unnotched	1.22 J/cm	2.29 ft-lb/in	ASTM D4812

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	2.80 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	1.56 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
CTE, linear, Transverse to Flow	12.6 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	7.00 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 1.8 MPa (264 psi)	150 $\text{Å}^\circ\text{C}$	302 $\text{Å}^\circ\text{F}$	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

Electrical Properties	Metric	English	Comments
Surface Resistance	10 ohm - 1e+05	10 ohm - 1e+05	ASTM D257

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