

SABIC Innovative Plastics LNP STAT-KON DX04489C PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP STAT-KON* DX04489C is a high modulus compound based on Polycarbonate resin containing Proprietary Filler(s). 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-DX04489C-PC.php

Physical Properties	Metric	English	Comments
Density	1.33 g/cc	0.0480 lb/in ³	ASTM D792
Moisture Absorption	0.100 %	0.100 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Transverse	0.0030 cm/cm @Time 86400 sec	0.0030 in/in @Time 24.0 hour	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	111 MPa	16100 psi	ASTM D638
Tensile Strength, Yield	130 MPa	18900 psi	ASTM D638
Elongation at Break	2.4 %	2.4 %	ASTM D638
Elongation at Yield	2.2 %	2.2 %	ASTM D638
Tensile Modulus	16.63 GPa	2412 ksi	50 mm/min; ASTM D638
Flexural Strength	206 MPa	29900 psi	ASTM D790
Flexural Modulus	15.53 GPa	2252 ksi	ASTM D790
Izod Impact, Notched	0.580 J/cm	1.09 ft-lb/in	ASTM D256
Izod Impact, Unnotched	4.80 J/cm	8.99 ft-lb/in	ASTM D4812
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	16.2 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	9.00 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	ASTM E 831
CTE, linear, Transverse to Flow	41.4 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	23.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	ASTM E 831

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Surface Resistance	100 - 1.00e+6 ohm	100 - 1.00e+6 ohm	ASTM D257

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