

SABIC Innovative Plastics LNP STAT-KON DX09303C PC (Asia Pacific)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* Stat-Kon* DX09303C is carbon fiber filled polycarbonate composite with high modulus, good flow ability, and high level of cleanliness for the most demanding application. A unique feature of this material is its low C18-C40 hydrocarbons. This compound is manufactured using LNP CCS Technology.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-DX09303C-PC-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.35 g/cc	1.35 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.00050 - 0.0015 cm/cm @Thickness 3.20 mm	0.00050 - 0.0015 in/in @Thickness 0.126 in	SABIC Method
Linear Mold Shrinkage, Transverse	0.0010 - 0.0025 cm/cm @Thickness 3.20 mm	0.0010 - 0.0025 in/in @Thickness 0.126 in	SABIC Method
Melt Index of Compound	47 g/10 min @Load 5.00 kg, Temperature 300 Â°C	47 g/10 min @Load 11.0 lb, Temperature 572 Â°F	MVR [cm^3/10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	161 MPa	23400 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	2.0 %	2.0 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	20.13 GPa	2920 ksi	5 mm/min; ASTM D638
Flexural Strength	246 MPa	35700 psi	ASTM D790
Flexural Modulus	18.0 GPa	2610 ksi	ASTM D790
Izod Impact, Notched	0.820 J/cm	1.54 ft-lb/in	ASTM D256
Izod Impact, Unnotched	6.01 J/cm	11.3 ft-lb/in	ASTM D4812

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	4.40 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	2.44 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
CTE, linear, Transverse to Flow	59.8 Âµm/m-Â°C	33.2 Âµin/in-Â°F	ASTM E 831

Thermal Properties	Metric @Temperature -40.0 - 40.0 Â°C	English @Temperature -40.0 - 104 Â°F	Comments
Deflection Temperature at 1.8 MPa (264 psi)	125 Â°C @Thickness 3.20 mm	257 Â°F @Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Surface Resistance	5000 - 500000 ohm	5000 - 500000 ohm	ASTM D257

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