

SABIC Innovative Plastics LNP STAT-KON DE003ER PC (Asia Pacific)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP STAT-KON* DE003ER is a compound based on Polycarbonate resin containing Carbon Fiber. Added features of this material include:
Easy Molding.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-DE003ER-PC-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	1.24 g/cc	0.0448 lb/in ³	ASTM D792
	1.24 g/cc	0.0448 lb/in ³	ISO 1183
Moisture Absorption	0.160 %	0.160 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.00040 - 0.0010 cm/cm @Time 86400 sec	0.00040 - 0.0010 in/in @Time 24.0 hour	ASTM D955
	0.00040 - 0.0013 cm/cm @Time 86400 sec	0.00040 - 0.0013 in/in @Time 24.0 hour	ISO 294
Linear Mold Shrinkage, Transverse	0.0030 - 0.0040 cm/cm @Time 86400 sec	0.0030 - 0.0040 in/in @Time 24.0 hour	ASTM D955
	0.0032 - 0.0041 cm/cm @Time 86400 sec	0.0032 - 0.0041 in/in @Time 24.0 hour	ISO 294

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	108 MPa	15700 psi	ISO 527
	109 MPa	15800 psi	ASTM D638
Elongation at Break	2.0 %	2.0 %	ISO 527
	2.1 %	2.1 %	ASTM D638
Tensile Modulus	8.41 GPa	1220 ksi	1 mm/min; ISO 527
	8.78 GPa	1270 ksi	50 mm/min; ASTM D638
Flexural Strength	176 MPa	25500 psi	ISO 178
	182 MPa	26400 psi	ASTM D790
Flexural Modulus	7.79 GPa	1130 ksi	ASTM D790

Mechanical Properties	Metric	English	Comments
	8.04 GPa	1170 ksi	ISO 178
Izod Impact, Notched	0.740 J/cm	1.39 ft-lb/in	ASTM D256
Izod Impact, Unnotched	4.91 J/cm	9.20 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	6.00 kJ/m ²	2.86 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	33.0 kJ/m ²	15.7 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	15.0 J	11.1 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	3.00 J	2.21 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	17.6 Åµm/m-Å°C	9.78 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	17.7 Åµm/m-Å°C	9.83 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
CTE, linear, Transverse to Flow	50.0 Åµm/m-Å°C	27.8 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	50.0 Åµm/m-Å°C	27.8 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	145 Å°C	293 Å°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	145 Å°C	293 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	137 Å°C	279 Å°F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Surface Resistance	100 ohm - 1e+05	100 ohm - 1e+05	ASTM D257

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