

SABIC Innovative Plastics LNP STAT-KON DE002ER PC (Asia Pacific)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP STAT-KON* DE002ER 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-DE002ER-PC-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	1.23 g/cc	0.0444 lb/in ³	ASTM D792
	1.23 g/cc	0.0444 lb/in ³	ISO 1183
Moisture Absorption	0.170 %	0.170 %	50% RH, 24 hrs; ASTM D570
	0.660 %	0.660 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.00060 - 0.0032 cm/cm	0.00060 - 0.0032 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0029 - 0.0043 cm/cm	0.0029 - 0.0043 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	100 MPa	14500 psi	ASTM D638
	102 MPa	14800 psi	ISO 527
Elongation at Break	2.8 %	2.8 %	ASTM D638
	3.3 %	3.3 %	ISO 527
Tensile Modulus	6.80 GPa	986 ksi	1 mm/min; ISO 527
	6.96 GPa	1010 ksi	50 mm/min; ASTM D638
Flexural Strength	165 MPa	23900 psi	ASTM D790
	170 MPa	24700 psi	ISO 178

Mechanical Properties	Metric	English	Comments
	6.96 GPa	1010 ksi	ISO 178
Izod Impact, Notched	0.950 J/cm	1.78 ft-lb/in	ASTM D256
Izod Impact, Unnotched	5.63 J/cm	10.5 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	7.00 kJ/m ²	3.33 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	39.0 kJ/m ²	18.6 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	19.0 J	14.0 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	4.00 J	2.95 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	26.4 Âµm/m-Â°C	14.7 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	26.5 Âµm/m-Â°C	14.7 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
CTE, linear, Transverse to Flow	58.3 Âµm/m-Â°C	32.4 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	58.3 Âµm/m-Â°C	32.4 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	143 Â°C	289 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	142 Â°C	288 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	141 Â°C	286 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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

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