

SABIC Innovative Plastics LNP Stat-kon PE002 PA 6 (Asia Pacific)

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

LNP* Stat-kon* PE002 is a compound based on Nylon 6 resin containing Carbon Fiber. Added features of this material include: Electrically Conductive. This data was supplied by SABIC-IP for the Asia Pacific region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Stat-kon-PE002-PA-6-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	1.18 g/cc	0.0426 lb/in ³	ASTM D 792
	1.18 g/cc	0.0426 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	1.0 %	1.0 %	50% RH; ASTM D 570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
	0.0041 cm/cm	0.0041 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0060 - 0.0080 cm/cm	0.0060 - 0.0080 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
	0.0074 cm/cm	0.0074 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	114 MPa	16500 psi	ASTM D 638
	115 MPa	16700 psi	Type I, 5 mm/min; ASTM D 638
	124 MPa	18000 psi	ISO 527
	124 MPa	18000 psi	5 mm/min; ISO 527
Elongation at Break	6.8 %	6.8 %	ASTM D 638
	6.8 %	6.8 %	Type I, 5 mm/min; ASTM D 638
	8.0 %	8.0 %	ISO 527
	8.1 %	8.1 %	5 mm/min; ISO 527
Tensile Modulus	8.67 GPa	1260 ksi	1 mm/min; ISO 527

Mechanical Properties	Metric 11.72 GPa	English 1700 ksi	Comments 50 mm/min; ASTM D 638
Flexural Strength	172 MPa	24900 psi	ASTM D 790
	179 MPa	26000 psi	1.3 mm/min, 50 mm span; ASTM D 790
	185 MPa	26800 psi	ISO 178
Flexural Yield Strength	185 MPa	26800 psi	2 mm/min; ISO 178
Flexural Modulus	5.51 GPa	799 ksi	ASTM D 790
	5.52 GPa	801 ksi	1.3 mm/min, 50 mm span; ASTM D 790
	7.40 GPa	1070 ksi	ISO 178
	7.40 GPa	1070 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.640 J/cm	1.20 ft-lb/in	ASTM D 256
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Izod Impact, Unnotched	1.22 J/cm	2.29 ft-lb/in	ASTM D 4812
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Izod Impact, Notched (ISO)	5.00 kJ/mÂ²	2.38 ft-lb/inÂ²	80*10*4; ISO 180/1A
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Izod Impact, Unnotched (ISO)	8.00 kJ/mÂ²	3.81 ft-lb/inÂ²	80*10*4; ISO 180/1U
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	80.0 Âµm/m-Â°C	44.4 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	80.0 Âµm/m-Â°C	44.4 Âµin/in-Â°F	ISO 11359-2
	@Temperature 23.0 - 60.0 Â°C	@Temperature 73.4 - 140 Â°F	
	81.0 Âµm/m-Â°C	45.0 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
CTE, linear, Transverse to Flow	39.0 Âµm/m-Â°C	21.7 Âµin/in-Â°F	ISO 11359-2

Thermal Properties	Metric @Temperature -40.0 - 40.0 Â°C	English @Temperature -40.0 - 104 Â°F	Comments
	39.0 Âµm/m-Â°C	21.7 Âµin/in-Â°F	ISO 11359-2
	@Temperature 23.0 - 60.0 Â°C	@Temperature 73.4 - 140 Â°F	
	39.6 Âµm/m-Â°C	22.0 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	215 Â°C	419 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	219 Â°C	426 Â°F	unannealed; ASTM D 648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	197 Â°C	387 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	197 Â°C	387 Â°F	unannealed; ASTM D 648
	@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 D 257

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