

SABIC Innovative Plastics LNP STAT-KON QD000I PA 6/10

Category : Polymer , Thermoplastic , Nylon , Nylon 610

Material Notes:

LNP* STAT-KON* QD000I is a compound based on Nylon 6/10 resin containing Carbon Powder. Added features of this material include:
Electrically Conductive, High Impact.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-QD000I-PA-610.php

Physical Properties	Metric	English	Comments
Density	1.11 g/cc	0.0401 lb/in ³	ASTM D792
Moisture Absorption	0.280 %	0.280 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	>= 0.020 cm/cm	>= 0.020 in/in	ISO 294
	@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	
	0.010 - 0.030 cm/cm	0.010 - 0.030 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	31.0 MPa	4500 psi	ASTM D638
Elongation at Break	52.7 %	52.7 %	ASTM D638
Flexural Strength	54.0 MPa	7830 psi	ASTM D790
Flexural Modulus	1.72 GPa	249 ksi	ASTM D790
Izod Impact, Notched	6.03 J/cm	11.3 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	117 µm/m-°C	65.0 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
CTE, linear, Transverse to Flow	117 µm/m-°C	65.0 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	95.0°C @Thickness 3.20 mm	100°F @Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	100 - 10000 ohm-cm	100 - 10000 ohm-cm	ASTM D257
Surface Resistance	100 - 10000 ohm	100 - 10000 ohm	ASTM D257

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