

## SABIC Innovative Plastics LNP STAT-KON QE002S PA6.10

Category : Polymer , Thermoplastic , Nylon , Nylon 610

### Material Notes:

LNP\* STAT-KON\* QE002S is a compound based on Nylon 6/10 containing 10% carbon Fiber. Added features of this material include: Heat Stabilized, Electrically Conductive.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-STAT-KON-QE002S-PA610.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-QE002S-PA610.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.12 g/cc	1.12 g/cc	ASTM D792
Density	1.12 g/cc	0.0405 lb/in <sup>3</sup>	ASTM D792
Moisture Absorption	0.280 %	0.280 %	50% RH, 24 hrs; ASTM D570
	0.370 %	0.370 %	23°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0080 - 0.010 cm/cm	0.0080 - 0.010 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	142 MPa	20600 psi	5 mm/min; ISO 527
	143 MPa	20700 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	144 MPa	20900 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	2.7 %	2.7 %	5 mm/min; ISO 527
	2.9 %	2.9 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	2.8 %	2.8 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	8.37 GPa	1210 ksi	1 mm/min; ISO 527
	8.48 GPa	1230 ksi	5 mm/min; ASTM D638
Flexural Strength	195 MPa	28300 psi	ISO 178
	197 MPa	28600 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Yield Strength	201 MPa	29200 psi	1.3 mm/min, 50 mm span; ASTM D790

Flexural Modulus Mechanical Properties	6.72 GPa Metric	975 ksi English	2 mm/min; ISO 178 Comments
	7.16 GPa	1040 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.430 J/cm	0.806 ft-lb/in	ASTM D256
Izod Impact, Unnotched	4.77 J/cm	8.94 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	4.00 kJ/m <sup>2</sup>	1.90 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	31.0 kJ/m <sup>2</sup>	14.8 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U
Dart Drop, Total Energy	7.00 J @Temperature 23.0 °C	5.16 ft-lb @Temperature 73.4 °F	ASTM D3763
Impact Test	1.00 J	0.738 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	28.0 µm/m-°C @Temperature -30.0 - 30.0 °C	15.6 µin/in-°F @Temperature -22.0 - 86.0 °F	ASTM D696
CTE, linear, Transverse to Flow	81.0 µm/m-°C @Temperature -30.0 - 30.0 °C	45.0 µin/in-°F @Temperature -22.0 - 86.0 °F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	220 °C	428 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	222 °C @Thickness 3.20 mm	432 °F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	203 °C	397 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	205 °C @Thickness 3.20 mm	401 °F @Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Surface Resistance	10000 - 1.00e+6 ohm	10000 - 1.00e+6 ohm	ASTM D257

## Contact Songhan Plastic Technology Co.,Ltd.

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