

SABIC Innovative Plastics LNP STAT-KON QEP35M PA6.10

Category : Polymer , Thermoplastic , Nylon , Nylon 610

Material Notes:

LNP STAT-KON QEP35M is a compound based on Nylon 6/10 resin containing 25% Milled Carbon Fiber, 15% PTFE/Silicone. Added features of this grade include: Electrically Conductive, Wear Resistant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-QEP35M-PA610.php

Physical Properties	Metric	English	Comments
Density	1.31 g/cc	0.0473 lb/in ³	ASTM D792
	1.31 g/cc	0.0473 lb/in ³	ISO 1183
Moisture Absorption	0.270 %	0.270 %	50% RH, 24 hrs; ASTM D570
	0.400 %	0.400 %	23°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0040 cm/cm	0.0040 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0070 - 0.010 cm/cm	0.0070 - 0.010 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	119 MPa	17300 psi	Type I, 5 mm/min; ASTM D638
	140 MPa	20300 psi	5 mm/min; ISO 527
Tensile Strength, Yield	119 MPa	17300 psi	Type I, 5 mm/min; ASTM D638
	140 MPa	20300 psi	5 mm/min; ISO 527
Elongation at Break	1.5 %	1.5 %	Type I, 5 mm/min; ASTM D638
	2.6 %	2.6 %	5 mm/min; ISO 527
Elongation at Yield	1.5 %	1.5 %	Type I, 5 mm/min; ASTM D638
	2.5 %	2.5 %	5 mm/min; ISO 527
Tensile Modulus	13.43 GPa	1948 ksi	1 mm/min; ISO 527
	23.18 GPa	3362 ksi	50 mm/min; ASTM D638
Flexural Strength	214 MPa	31000 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Yield Strength	205 MPa	29700 psi	2 mm/min; ISO 178

Mechanical Properties	Metric	English	Comments
Flexural Modulus	9.15 GPa	1330 ksi	1 mm/min, 50 mm span; ASTM D790
	9.81 GPa	1420 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.660 J/cm	1.24 ft-lb/in	ASTM D256
Izod Impact, Unnotched	7.18 J/cm	13.5 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	5.00 kJ/m ²	2.38 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	40.0 kJ/m ²	19.0 ft-lb/in ²	80*10*4; ISO 180/1U

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	219 °C	426 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	219 °C @Thickness 3.20 mm	426 °F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	229 °C	444 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	201 °C @Thickness 3.20 mm	394 °F @Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Surface Resistance	1.0 - 3.0 ohm	1.0 - 3.0 ohm	ASTM D257

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