

SABIC Innovative Plastics LNP STAT-KON QEL329 PA 6/10 (Asia Pacific)

Category : Polymer , Thermoplastic , Nylon , Nylon 610

Material Notes:

LNP STAT-KON* QEL329 is a compound based on Nylon 6/10 resin containing Carbon Fiber, Flame Retardant, PTFE. Added features of this material include: Electrically Conductive.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-QEL329-PA-610-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	1.44 g/cc	0.0520 lb/in ³	ISO 1183
	1.44 g/cc	0.0520 lb/in ³	ASTM D792
Moisture Absorption	0.130 %	0.130 %	23°C / 50% RH; ISO 62
	0.130 %	0.130 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0070 - 0.0080 cm/cm	0.0070 - 0.0080 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0070 - 0.0090 cm/cm	0.0070 - 0.0090 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	117 MPa	17000 psi	ASTM D638
	126 MPa	18300 psi	ISO 527
Elongation at Break	2.4 %	2.4 %	ISO 527
	2.5 %	2.5 %	ASTM D638
Tensile Modulus	8.82 GPa	1280 ksi	50 mm/min; ASTM D638
	9.58 GPa	1390 ksi	1 mm/min; ISO 527
Flexural Strength	171 MPa	24800 psi	ASTM D790
	185 MPa	26800 psi	ISO 178

Flexural Modulus Mechanical Properties	5.99 GPa Metric	869 ksi English	ASTM D790 Comments
	7.01 GPa	1020 ksi	ISO 178
Izod Impact, Notched	0.370 J/cm	0.693 ft-lb/in	ASTM D256
Izod Impact, Unnotched	3.79 J/cm	7.10 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	4.00 kJ/m ²	1.90 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	29.0 kJ/m ²	13.8 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	8.00 J	5.90 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	9.00 J	6.64 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.47	0.47	ASTM D3702 Modified
Coefficient of Friction, Static	0.37	0.37	ASTM D3702 Modified
K (wear) Factor	127 x 10 ⁻⁸ mm ³ /N-M	63.0 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	193 °C	379 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	164 °C	327 °F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Flammability, UL94	V-0	V-0	UL 94 by SABIC-IP
	@Thickness 1.50 mm	@Thickness 0.0591 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1000 ohm-cm - 1e+05	1000 ohm-cm - 1e+05	ASTM D257
Surface Resistance	1000 ohm - 1e+05	1000 ohm - 1e+05	ASTM D257

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