

**SABIC Innovative Plastics LNP STAT-KON QEL329 PA 6/10**

Category : Polymer , Thermoplastic , Nylon , Nylon 610

**Material Notes:**

LNP STAT-KON\* QEL329 is a compound based on Nylon 6/10 resin containing 10% Carbon Fiber, 15% PTFE. Added features of this material include: Electrically Conductive, Wear Resistant, Flame Retardant.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-STAT-KON-QEL329-PA-610.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-QEL329-PA-610.php)

Physical Properties	Metric	English	Comments
Density	1.44 g/cc	0.0520 lb/in <sup>3</sup>	ASTM D792
	1.44 g/cc	0.0520 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption	0.130 %	0.130 %	50% RH, 24 hrs; ASTM D570
	0.130 %	0.130 %	23°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	ISO 294
	@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 <sup>2</sup>	1.90 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	29.0 kJ/m <sup>2</sup>	13.8 ft-lb/in <sup>2</sup>	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 <sup>-8</sup> mm <sup>3</sup> /N-M	63.0 x 10 <sup>-10</sup> in <sup>3</sup> -min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	18.0 μm/m-°C	10.0 μin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
CTE, linear, Transverse to Flow	18.1 μm/m-°C	10.1 μin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
CTE, linear, Transverse to Flow	93.6 μm/m-°C	52.0 μin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
Deflection Temperature at 1.8 MPa (264 psi)	94.7 μm/m-°C	52.6 μin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
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	
Flammability, UL94	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648
	V-0	V-0	
Flammability, UL94	@Thickness 1.50 mm	@Thickness 0.0591 in	UL 94 by SABIC-IP

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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