

SABIC Innovative Plastics LNP Lubricomp QCL329 PA 6/10

Category : Polymer , Thermoplastic , Nylon , Nylon 610 , Nylon 610, Carbon Fiber Filled

Material Notes:

LNP LUBRICOMP* QCL329 is a compound based on Nylon 6/10 resin containing Carbon Fiber, Flame Retardant, PTFE. Added features of this material include: Electrically Conductive. This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Lubricomp-QCL329-PA-610.php

Physical Properties	Metric	English	Comments
Density	1.40 g/cc	0.0506 lb/in ³	ISO 1183
	1.44 g/cc	0.0520 lb/in ³	ASTM D 792
Moisture Absorption at Equilibrium	0.19 %	0.19 %	23 ^o C / 50% RH; ISO 62
	0.13 % @Time 86400 sec	0.13 % @Time 24.0 hour	50% RH; ASTM D 570
Linear Mold Shrinkage, Flow	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	ASTM D 955
	@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 - 0.0090 cm/cm	0.0070 - 0.0090 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
	0.0070 - 0.0090 cm/cm	0.0070 - 0.0090 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	117 MPa	17000 psi	ASTM D 638
	126 MPa	18300 psi	ISO 527
Elongation at Break	2.4 %	2.4 %	ISO 527
	2.5 %	2.5 %	ASTM D 638
Tensile Modulus	8.82 GPa	1280 ksi	50 mm/min; ASTM D 638
	9.58 GPa	1390 ksi	1 mm/min; ISO 527
Flexural Strength	171 MPa	24800 psi	ASTM D 790
	185 MPa	26800 psi	ISO 178

Mechanical Properties	Metric	English	Comments
Flexural Modulus	7.01 GPa	1020 ksi	ISO 178
Izod Impact, Notched	0.370 J/cm @Temperature 23.0 Â°C	0.693 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Unnotched	3.79 J/cm @Temperature 23.0 Â°C	7.10 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812
Izod Impact, Notched (ISO)	4.00 kJ/mÂ² @Temperature 23.0 Â°C	1.90 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	29.0 kJ/mÂ² @Temperature 23.0 Â°C	13.8 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U
Impact Test	9.00 J	6.64 ft-lb	Multiaxial Impact; ISO 6603
	8.00 J @Temperature 23.0 Â°C	5.90 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Energy @ peak; ASTM D 3763
Coefficient of Friction, Dynamic	0.47	0.47	ASTM D 3702 Modified
Coefficient of Friction, Static	0.37	0.37	ASTM D 3702 Modified
K (wear) Factor	127 x 10 ⁻⁸ mmÂ³/N-M	63.0 x 10 ⁻¹⁰ inÂ³- min/ft-lb-hr	Washer; ASTM D 3702 Modified

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	193 Â°C	379 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	164 Â°C @Thickness 3.20 mm	327 Â°F @Thickness 0.126 in	unannealed; ASTM D 648
Flammability, UL94	V-0 @Thickness 1.50 mm	V-0 @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 D 257
Surface Resistance	1000 ohm - 1e+05	1000 ohm - 1e+05	ASTM D 257

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