

SABIC Innovative Plastics LNP LUBRICOMP QCP36 PA6.10

Category : Polymer , Thermoplastic , Nylon , Nylon 610

Material Notes:

LNP* LUBRICOMP* QCP36 is a compound based on Nylon 6/10 resin containing 15% PTFE/Silicone, 30% Carbon Fiber. Added features of this material include: Wear Resistant. Electrically Conductive

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-QCP36-PA610.php

Physical Properties	Metric	English	Comments
Density	1.32 g/cc	0.0477 lb/in ³	ASTM D792
	1.32 g/cc	0.0477 lb/in ³	ISO 1183
Moisture Absorption	0.100 %	0.100 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0035 cm/cm	0.0035 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0040 cm/cm	0.0040 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0080 cm/cm	0.0080 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0080 cm/cm	0.0080 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	173 MPa	25100 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	173 MPa	25100 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	2.0 %	2.0 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	1.9 %	1.9 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	19.2 GPa	2780 ksi	1 mm/min; ISO 527
	19.85 GPa	2879 ksi	50 mm/min; ASTM D638
Flexural Strength	282 MPa	40900 psi	ASTM D790
Flexural Modulus	16.54 GPa	2399 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.530 J/cm	0.993 ft-lb/in	ASTM D256

Mechanical Properties	Metric	English	Comments
Izod Impact, Notched (ISO)	7.00 kJ/m ²	3.33 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	49.0 kJ/m ²	23.3 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	6.00 J	4.43 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	3.00 J	2.21 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.46	0.46	ASTM D3702 Modified
Coefficient of Friction, Static	0.46	0.46	ASTM D3702 Modified
K (wear) Factor	30.2 x 10 ⁻⁸ mm ³ /N-M	15.0 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	48.0 Åµm/m-Å°C	26.7 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	48.6 Åµm/m-Å°C	27.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
CTE, linear, Transverse to Flow	25.2 Åµm/m-Å°C	14.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	26.0 Åµm/m-Å°C	14.4 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	222 Å°C	432 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	221 Å°C	430 Å°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	212 Å°C	414 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/ Af
	212 Å°C	414 Å°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China