

## SABIC Innovative Plastics LNP LUBRICOMP QCP36 PA 6/10 (Asia Pacific)

Category : Polymer , Thermoplastic , Nylon , Nylon 610

### Material Notes:

LNP\* Lubricomp\* QCP36 is a compound based on Nylon 6/10 resin containing PTFE, Flame Retardant, Carbon Fiber. Added features of this material include: Internally Lubricated, , Electrically Conductive.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-LUBRICOMP-QCP36-PA-610-Asia-Pacific.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-QCP36-PA-610-Asia-Pacific.php)

Physical Properties	Metric	English	Comments
Density	1.32 g/cc	0.0477 lb/in <sup>3</sup>	ASTM D792
	1.32 g/cc	0.0477 lb/in <sup>3</sup>	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	
Linear Mold Shrinkage, Transverse	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	
Linear Mold Shrinkage, Transverse	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	ASTM D638
	188 MPa	27300 psi	
Tensile Strength, Yield	173 MPa	25100 psi	ASTM D638
	188 MPa	27300 psi	
Elongation at Break	2.0 %	2.0 %	ASTM D638
	6.2 %	6.2 %	
Elongation at Yield	1.9 %	1.9 %	ISO 527
	2.0 %	2.0 %	
Tensile Modulus	19.2 GPa	2780 ksi	1 mm/min; ISO 527

Mechanical Properties	19.85 GPa Metric	2879 ksi English	50 mm/min; ASTM D638 Comments
Flexural Strength	282 MPa	40900 psi	ASTM D790
	289 MPa	41900 psi	ISO 178
Flexural Modulus	16.54 GPa	2399 ksi	ASTM D790
	17.0 GPa	2470 ksi	ISO 178
Izod Impact, Notched	0.530 J/cm	0.993 ft-lb/in	ASTM D256
Izod Impact, Unnotched	8.01 J/cm	15.0 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	7.00 kJ/m <sup>2</sup>	3.33 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	49.0 kJ/m <sup>2</sup>	23.3 ft-lb/in <sup>2</sup>	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 <sup>-8</sup> mm <sup>3</sup> /N-M	15.0 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	48.0 μm/m-°C	26.7 μin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	48.6 μm/m-°C	27.0 μin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
CTE, linear, Transverse to Flow	25.2 μm/m-°C	14.0 μin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	26.0 μm/m-°C	14.4 μin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
Deflection Temperature at 0.46 MPa (66 psi)	222 °C	432 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	221 °C	430 °F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648

Thermal Properties (204 psi)	Metric	English	Comments
Temperature at 1.8 MPa	212 °C	414 °F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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