

## SABIC Innovative Plastics LNP LUBRICOMP QFL32 PA 6/10

Category : Polymer , Thermoplastic , Nylon , Nylon 610

### Material Notes:

LNP\* LUBRICOMP\* QFL32 is a compound based on Nylon 6/10 containing 10% Glass Fiber, 15% PTFE. Added features of this grade include:  
Wear Resistant.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-LUBRICOMP-QFL32-PA-610.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-QFL32-PA-610.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.25 g/cc	1.25 g/cc	ASTM D792
Density	1.25 g/cc	0.0452 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption	0.240 %	0.240 %	50% RH, 24 hrs; ASTM D570
	0.340 %	0.340 %	23 <sup>o</sup> C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0070 - 0.0090 cm/cm	0.0070 - 0.0090 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.010 - 0.030 cm/cm	0.010 - 0.030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	79.0 MPa	11500 psi	5 mm/min; ISO 527
	85.0 MPa	12300 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	86.0 MPa	12500 psi	5 mm/min; ISO 527
Elongation at Break	3.0 %	3.0 %	5 mm/min; ISO 527
	3.1 %	3.1 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	4.44 GPa	644 ksi	1 mm/min; ISO 527
	4.68 GPa	679 ksi	50 mm/min; ASTM D638
Flexural Strength	128 MPa	18600 psi	ISO 178
	134 MPa	19400 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	3.85 GPa	558 ksi	1.3 mm/min, 50 mm span; ASTM D790
	3.88 GPa	563 ksi	2 mm/min; ISO 178

Izod Impact, Notched Mechanical Properties	0.380 J/cm Metric	0.712 ft-lb/in English	ASTM D256 Comments
Izod Impact, Unnotched	3.67 J/cm	6.88 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	1.00 kJ/m <sup>2</sup>	0.476 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	23.0 kJ/m <sup>2</sup>	10.9 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U
Dart Drop, Total Energy	5.00 J @Temperature 23.0 Â°C	3.69 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	1.00 J	0.738 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.42	0.42	ASTM D3702 Modified
Coefficient of Friction, Static	0.38	0.38	ASTM D3702 Modified
K (wear) Factor	10.1 x 10 <sup>-8</sup> mm <sup>3</sup> /N-M	5.00 x 10 <sup>-10</sup> in <sup>3</sup> - min/ft-lb-hr	Ring; ASTM D3702 Modified
	96.7 x 10 <sup>-8</sup> mm <sup>3</sup> /N-M	48.0 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	56.4 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	31.3 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	118 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	65.6 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	215 Â°C	419 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	218 Â°C @Thickness 3.20 mm	424 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	189 Â°C	372 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	196 Â°C @Thickness 3.20 mm	385 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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