

SABIC Innovative Plastics LNP LUBRICOMP IFL36R PA6.12 (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Nylon , Nylon 612

Material Notes:

Internally lubricated PA6.12, containing Glass Fiber and PTFE

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-IFL36R-PA612-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.42 g/cc	0.0513 lb/in ³	ISO 1183

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	147 MPa	21300 psi	5 mm/min; ISO 527
Tensile Strength, Yield	148 MPa	21500 psi	5 mm/min; ISO 527
Elongation at Break	3.4 %	3.4 %	5 mm/min; ISO 527
Elongation at Yield	3.3 %	3.3 %	5 mm/min; ISO 527
Tensile Modulus	8.70 GPa	1260 ksi	1 mm/min; ISO 527
Flexural Strength	198 MPa	28700 psi	2 mm/min; ISO 178
Flexural Yield Strength	200 MPa	29000 psi	2 mm/min; ISO 178
Flexural Modulus	7.30 GPa	1060 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	12.0 kJ/m ²	5.71 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	70.0 kJ/m ²	33.3 ft-lb/in ²	80*10*4; ISO 180/1U
Coefficient of Friction, Dynamic	0.55	0.55	ASTM D3702 Modified
Coefficient of Friction, Static	0.50	0.50	ASTM D3702 Modified
K (wear) Factor	18.1 x 10 ⁻⁸ mm ³ /N-M	9.00 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	28.0 Åµm/m-Å°C	15.6 Åµin/in-Å°F	ISO 11359-2
	@Temperature 23.0 - 60.0 Å°C	@Temperature 73.4 - 140 Å°F	
CTE, linear, Transverse to Flow	101 Åµm/m-Å°C	56.1 Åµin/in-Å°F	ISO 11359-2
	@Temperature 23.0 -	@Temperature 73.4 -	

Thermal Properties	60.0 Å°C Metric	140 Å°F English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	197 Å°C	387 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af

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