

SABIC Innovative Plastics LNP LUBRICOMP SP003 PA12 (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Nylon , Nylon 12

Material Notes:

LNP* LUBRICOMP* SP003 is a compound based on PA 12 resin containing PTFE/Silicone. Added features include: Internally Lubricated.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-SP003-PA12-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.09 g/cc	0.0394 lb/in ³	ISO 1183
Water Absorption	1.9 % @Time 86400 sec	1.9 % @Time 24.0 hour	ISO 62-1

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	28.0 MPa	4060 psi	50 mm/min; ISO 527
Tensile Strength, Yield	38.0 MPa	5510 psi	50 mm/min; ISO 527
Elongation at Break	35 %	35 %	50 mm/min; ISO 527
Elongation at Yield	2.9 %	2.9 %	50 mm/min; ISO 527
Tensile Modulus	2.00 GPa	290 ksi	1 mm/min; ISO 527
Flexural Strength	45.0 MPa	6530 psi	2 mm/min; ISO 178
Flexural Modulus	1.30 GPa	189 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	5.00 kJ/m ²	2.38 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	85.0 kJ/m ²	40.4 ft-lb/in ²	80*10*4; ISO 180/1U

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	130 Åµm/m-Å°C @Temperature 23.0 - 60.0 Å°C	72.2 Åµin/in-Å°F @Temperature 73.4 - 140 Å°F	ISO 11359-2
CTE, linear, Transverse to Flow	140 Åµm/m-Å°C @Temperature 23.0 - 60.0 Å°C	77.8 Åµin/in-Å°F @Temperature 73.4 - 140 Å°F	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	131 Å°C	268 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
Deflection Temperature at 1.8 MPa			

(264 psi)	47.0 Å°C	117 Å°F	Flatw 80×10×4 sp=64mm; ISO 75/Åf
Thermal Properties	Metric	English	Comments

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