

SABIC Innovative Plastics LNP LUBRICOMP FP003 PE (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Polyethylene (PE)

Material Notes:

LNP *Lubricomp* FP003 is a compound based on Polyethylene resin, containing PTFE and Silicone. Added features include: Internally Lubricated.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-FP003-PE-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.02 g/cc	0.0368 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.030 cm/cm	0.030 in/in	SABIC Method

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	12.0 MPa	1740 psi	50 mm/min; ISO 527
Tensile Strength, Yield	20.0 MPa	2900 psi	50 mm/min; ISO 527
Elongation at Break	12 %	12 %	50 mm/min; ISO 527
Elongation at Yield	9.0 %	9.0 %	50 mm/min; ISO 527
Tensile Modulus	0.900 GPa	131 ksi	1 mm/min; ISO 527
Flexural Yield Strength	18.0 MPa	2610 psi	2 mm/min; ISO 178
Flexural Modulus	0.700 GPa	102 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	6.00 kJ/m ²	2.86 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	80.0 kJ/m ²	38.1 ft-lb/in ²	80*10*4; ISO 180/1U

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	144 µm/m-°C @Temperature 23.0 - 60.0 °C	80.0 µin/in-°F @Temperature 73.4 - 140 °F	ISO 11359-2
CTE, linear, Transverse to Flow	124 µm/m-°C @Temperature 23.0 - 60.0 °C	68.9 µin/in-°F @Temperature 73.4 - 140 °F	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	63.0 °C	145 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
Deflection Temperature at 1.8 MPa	47.0 °C	117 °F	

(264 psi)			
Thermal Properties	Metric	English	Flatw 80*10*4 sp=64mm; ISO 75/Af Comments

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