

SABIC Innovative Plastics LNP LUBRICOMP FL003 PE

Category : Polymer , Thermoplastic , Polyethylene (PE)

Material Notes:

LNP* LUBRICOMP* FL003 is a compound based on Polyethylene resin containing 15% PTFE. Added features include: Internally Lubricated.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-FL003-PE.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.03 g/cc	1.03 g/cc	ASTM D792
Density	1.03 g/cc	0.0372 lb/in ³	ASTM D792
Moisture Absorption	0.0400 %	0.0400 %	50% RH, 24 hrs; ASTM D570
	0.0400 %	0.0400 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	>= 0.020 cm/cm @Time 86400 sec	>= 0.020 in/in @Time 24.0 hour	ASTM D955
Linear Mold Shrinkage, Transverse	0.010 - 0.030 cm/cm @Time 86400 sec	0.010 - 0.030 in/in @Time 24.0 hour	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	12.0 MPa	1740 psi	5 mm/min; ISO 527
	14.0 MPa	2030 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	24.0 MPa	3480 psi	Type I, 5 mm/min; ASTM D638
	24.0 MPa	3480 psi	5 mm/min; ISO 527
Elongation at Break	59 %	59 %	Type I, 5 mm/min; ASTM D638
	237 %	237 %	5 mm/min; ISO 527
Elongation at Yield	8.4 %	8.4 %	5 mm/min; ISO 527
	8.5 %	8.5 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	1.31 GPa	190 ksi	1 mm/min; ISO 527
	1.48 GPa	215 ksi	50 mm/min; ASTM D638
Flexural Strength	20.0 MPa	2900 psi	ISO 178
Flexural Modulus	0.850 GPa	123 ksi	1.3 mm/min, 50 mm span; ASTM D790

Mechanical Properties	0.920 GPa Metric	133 ksi English	2 mm/min* ISO 178 Comments
Izod Impact, Notched	0.390 J/cm	0.731 ft-lb/in	ASTM D256
Izod Impact, Unnotched	14.6 J/cm	27.4 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	3.00 kJ/mÂ²	1.43 ft-lb/inÂ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	94.0 kJ/mÂ²	44.7 ft-lb/inÂ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	8.00 J @Temperature 23.0 Â°C	5.90 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	4.00 J	2.95 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	134 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	74.4 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	145 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	80.6 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	82.0 Â°C	180 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	72.0 Â°C @Thickness 3.20 mm	162 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	46.0 Â°C	115 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	46.0 Â°C @Thickness 3.20 mm	115 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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