

SABIC Innovative Plastics LNP Lubricomp FX00617 PE

Category : Polymer , Thermoplastic , Polyethylene (PE)

Material Notes:

LNP* Lubricomp* FX00617 is a compound based on Polyethylene resin containing Silicone. Added features of this material include: Internally Lubricated. This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Lubricomp-FX00617-PE.php

Physical Properties	Metric	English	Comments
Density	0.990 g/cc	0.0358 lb/in ³	ASTM D 792
	0.990 g/cc	0.0358 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.022 cm/cm	0.022 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
	0.022 cm/cm	0.022 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.019 cm/cm	0.019 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
	0.019 cm/cm	0.019 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	8.00 MPa	1160 psi	ISO 527
Tensile Strength, Yield	8.00 MPa	1160 psi	ASTM D 638
	9.00 MPa	1310 psi	ISO 527
Elongation at Break	3.6 %	3.6 %	ISO 527
Elongation at Yield	14.3 %	14.3 %	ISO 527
	15.8 %	15.8 %	ASTM D 638
Tensile Modulus	0.300 GPa	43.5 ksi	1 mm/min; ISO 527
Flexural Strength	7.00 MPa	1020 psi	ISO 178
Izod Impact, Notched	2.67 J/cm	5.00 ft-lb/in	ASTM D 256
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	

Mechanical Properties	Metric	English	Comments
Izod Impact, Unnotched	5.34 J/cm @Temperature 23.0 Â°C	5.23 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812
Izod Impact, Notched (ISO)	11.0 kJ/mÂ² @Temperature 23.0 Â°C	5.23 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	52.0 kJ/mÂ² @Temperature 23.0 Â°C	24.7 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U
Impact Test	15.0 J	11.1 ft-lb	Multiaxial Impact; ISO 6603
	10.0 J @Temperature 23.0 Â°C	7.38 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Energy @ peak; ASTM D 3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	171 Âµm/m-Â°C	95.0 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	171 Âµm/m-Â°C	95.0 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
CTE, linear, Transverse to Flow	195 Âµm/m-Â°C	108 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	196 Âµm/m-Â°C	109 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	

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