

SABIC Innovative Plastics LNP LUBRICOMP YP003 POLYESTER ELASTOMER

Category : Polymer , Thermoplastic , Polyester, TP

Material Notes:

LNP LUBRICOMP* YP003 is a compound based on Polyester Elastomer resin containing 15% PTFE/Silicone. Added features of this material include: Wear Resistant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-YP003-POLYESTER-ELASTOMER.php

Physical Properties	Metric	English	Comments
Density	1.27 g/cc	0.0459 lb/in ³	ASTM D792
	1.27 g/cc	0.0459 lb/in ³	ISO 1183
Moisture Absorption	0.370 %	0.370 %	50% RH, 24 hrs; ASTM D570
	0.500 %	0.500 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.021 cm/cm	0.021 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0213 cm/cm	0.0213 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.020 cm/cm	0.020 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0205 cm/cm	0.0205 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	13.0 MPa	1890 psi	ASTM D638
	14.0 MPa	2030 psi	ISO 527
Elongation at Yield	39.9 %	39.9 %	ISO 527
	53.5 %	53.5 %	ASTM D638
Tensile Modulus	0.200 GPa	29.0 ksi	50 mm/min; ASTM D638
	0.240 GPa	34.8 ksi	1 mm/min; ISO 527
Flexural Modulus	0.260 GPa	37.7 ksi	ASTM D790
	0.270 GPa	39.2 ksi	ISO 178

Izod Impact, Notched Mechanical Properties	2.40 J/cm Metric	4.50 ft-lb/in English	ASTM D256 Comments
Izod Impact, Unnotched	NB	NB	ASTM D4812
Izod Impact, Notched (ISO)	27.0 kJ/m ²	12.8 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	NB	NB	80*10*4; ISO 180/1U
Dart Drop, Total Energy	27.0 J	19.9 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	26.0 J	19.2 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.47	0.47	ASTM D3702 Modified
Coefficient of Friction, Static	0.45	0.45	ASTM D3702 Modified
K (wear) Factor	10.1 x 10 ⁻⁸ mm ³ /N-M	5.00 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	111 Åµm/m-Å°C	61.7 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	111 Åµm/m-Å°C	61.7 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
CTE, linear, Transverse to Flow	184 Åµm/m-Å°C	102 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	184 Åµm/m-Å°C	102 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 1.8 MPa (264 psi)	47.0 Å°C	117 Å°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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