

SABIC Innovative Plastics LNP LUBRICOMP YI001 Polyester Elastomer (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Polyester, TP

Material Notes:

LNP* LUBRICOMP* YI001 is a compound based on Polyester Elastomer containing Silicone. Added features include; Internally Lubricated.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-YI001-Polyester-Elastomer-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.19 g/cc	0.0430 lb/in ³	ISO 1183
Water Absorption	0.60 % @Time 86400 sec	0.60 % @Time 24.0 hour	ISO 62-1
Linear Mold Shrinkage, Flow	0.021 cm/cm	0.021 in/in	SABIC Method

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	14.0 MPa	2030 psi	50 mm/min; ISO 527
Elongation at Yield	37 %	37 %	50 mm/min; ISO 527
Tensile Modulus	0.180 GPa	26.1 ksi	1 mm/min; ISO 527
Flexural Strength	9.00 MPa	1310 psi	2 mm/min; ISO 178
Flexural Yield Strength	12.0 MPa	1740 psi	2 mm/min; ISO 178
Flexural Modulus	0.180 GPa	26.1 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	45.0 kJ/m ²	21.4 ft-lb/in ²	80*10*4; ISO 180/1A

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	200 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Temperature 23.0 - 60.0 $\text{Å}^\circ\text{C}$	111 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @Temperature 73.4 - 140 $\text{Å}^\circ\text{F}$	ISO 11359-2
CTE, linear, Transverse to Flow	216 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Temperature 23.0 - 60.0 $\text{Å}^\circ\text{C}$	120 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @Temperature 73.4 - 140 $\text{Å}^\circ\text{F}$	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	193 $\text{Å}^\circ\text{C}$	379 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Bf
Deflection Temperature at 1.8 MPa (264 psi)	83.0 $\text{Å}^\circ\text{C}$	181 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Af

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