

SABIC Innovative Plastics LNP LUBRICOMP YL003 Polyester Elastomer

Category : Polymer , Thermoplastic , Polyester, TP

Material Notes:

LNP* LUBRICOMP* YL003 is a compound based on Polyester Elastomer resin containing 15% PTFE. Added feature of this grade is: Wear Resistant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-YL003-Polyester-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.28 g/cc	1.28 g/cc	ASTM D792
Density	1.27 g/cc	0.0459 lb/in ³	ASTM D792
Moisture Absorption	0.330 %	0.330 %	50% RH, 24 hrs; ASTM D570
	0.470 %	0.470 %	23°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	>= 0.020 cm/cm	>= 0.020 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.010 - 0.030 cm/cm	0.010 - 0.030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	14.0 MPa	2030 psi	5 mm/min; ISO 527
	43.0 MPa	6240 psi	Type I, 5 mm/min; ASTM D638
Elongation at Yield	14.2 %	14.2 %	Type I, 5 mm/min; ASTM D638
	43.5 %	43.5 %	5 mm/min; ISO 527
Tensile Modulus	0.230 GPa	33.4 ksi	50 mm/min; ASTM D638
	0.240 GPa	34.8 ksi	1 mm/min; ISO 527
Flexural Modulus	0.220 GPa	31.9 ksi	2 mm/min; ISO 178
	0.230 GPa	33.4 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	3.12 J/cm	5.85 ft-lb/in	ASTM D256
Izod Impact, Unnotched	4.55 J/cm	8.52 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	35.0 kJ/m ²	16.7 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	42.0 kJ/m ²	20.0 ft-lb/in ²	80*10*4; ISO 180/1U

Mechanical Properties	Metric	English	Comments
Dart Drop, Total Energy	25.0 J @Temperature 23.0 Â°C	18.4 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	24.0 J	17.7 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	172 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	95.6 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	188 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	104 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696

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