

SABIC Innovative Plastics LNP LUBRICOMP YL003C Polyester Elastomer

Category : Polymer , Thermoplastic , Polyester, TP

Material Notes:

LUBRICOMP* YL003C is a compound based on Polyester Elastomer resin containing 15% PTFE. Added features of this grade include: Clean Compound System, Wear Resistant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-YL003C-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
Water Absorption	0.20 %	0.20 %	ASTM D570
	@Time 173000 sec	@Time 48.0 hour	
Water Absorption at Saturation	0.50 %	0.50 %	ISO 62
Linear Mold Shrinkage, Flow	0.015 - 0.017 cm/cm	0.015 - 0.017 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.016 cm/cm	0.016 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.017 - 0.019 cm/cm	0.017 - 0.019 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.018 cm/cm	0.018 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	56	56	ASTM D2240
Tensile Strength at Break	22.0 MPa	3190 psi	ASTM D638
Elongation at Break	90 %	90 %	ASTM D638
	>= 450 %	>= 450 %	
Tensile Modulus	0.260 GPa	37.7 ksi	1 mm/min; ISO 527
	0.280 GPa	40.6 ksi	
Flexural Strength	12.0 MPa	1740 psi	ISO 178
	19.0 MPa	2760 psi	

Mechanical Properties	Metric	English	Comments
Flexural Modulus	0.290 GPa	42.1 ksi	ASTM D790
Izod Impact, Notched	1.50 J/cm	2.81 ft-lb/in	ASTM D256
Izod Impact, Unnotched	5.80 J/cm	10.9 ft-lb/in	ASTM D4812
Izod Impact, Unnotched (ISO)	23.0 kJ/m ²	10.9 ft-lb/in ²	80*10*4; ISO 180/1U
	48.0 kJ/m ²	22.8 ft-lb/in ²	80*10*3; ISO 180/1U

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	110 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	61.1 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
	110 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	61.1 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
CTE, linear, Transverse to Flow	180 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	100 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	88.0 $\text{Å}^\circ\text{C}$	190 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	85.0 $\text{Å}^\circ\text{C}$	185 $\text{Å}^\circ\text{F}$	
	@Thickness 6.40 mm	@Thickness 0.252 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	57.0 $\text{Å}^\circ\text{C}$	135 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Af
	54.0 $\text{Å}^\circ\text{C}$	129 $\text{Å}^\circ\text{F}$	
	@Thickness 6.40 mm	@Thickness 0.252 in	unannealed; ASTM D648
Flammability, UL94	HB	HB	UL 94
	@Thickness 1.00 mm	@Thickness 0.0394 in	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215, Fengxian District, Shanghai City, China