

SABIC Innovative Plastics LNP LUBRICOMP YL003C Polyester Elastomer (Asia Pacific)

Category : Polymer , Thermoplastic , Polyester, TP

Material Notes:

LUBRICOMP* YL-4030 CCS is a PTFE Lubricated Compound based on Polyester Elastomer resin which has low ionic and low outgassing performance for the Semicon and Internal Hard Disk Drive applications.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-YL003C-Polyester-Elastomer-Asia-Pacific.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	
Linear Mold Shrinkage, Transverse	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	
Linear Mold Shrinkage, Transverse	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

Mechanical Properties	Metric Pa	English	Comments
Flexural Modulus	0.280 GPa	40.6 ksi	ISO 178
	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 $\text{Å}^\circ\text{F}$	
	180 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	100 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
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	

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