

SABIC Innovative Plastics LNP LUBRICOMP PDX-U-05314 PPA (Asia Pacific)

Category : Polymer , Thermoplastic , Polyphthalamide (PPA)

Material Notes:

LNP* Lubricomp* PDX-U-05314 is a compound based on Polyphthalamide resin containing Proprietary Filler(s). Added features of this material include: Internally Lubricated.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-PDX-U-05314-PPA-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	1.54 g/cc	0.0556 lb/in ³	ASTM D792
	1.55 g/cc	0.0560 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0032 cm/cm	0.0032 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0038 cm/cm	0.0038 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	108 MPa	15700 psi	ISO 527
	118 MPa	17100 psi	ASTM D638
Elongation at Break	1.7 %	1.7 %	ISO 527
	2.0 %	2.0 %	ASTM D638
Tensile Modulus	11.07 GPa	1606 ksi	50 mm/min; ASTM D638
Flexural Strength	167 MPa	24200 psi	ISO 178
	186 MPa	27000 psi	ASTM D790
Flexural Modulus	10.59 GPa	1536 ksi	ASTM D790
Izod Impact, Notched	0.580 J/cm	1.09 ft-lb/in	ASTM D256
Izod Impact, Unnotched	4.48 J/cm	8.39 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	5.00 kJ/m ²	2.38 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	50.0 kJ/m ²	23.8 ft-lb/in ²	80*10*4; ISO 180/1U
Coefficient of Friction, Dynamic	0.39	0.39	ASTM D3702 Modified
K (wear) Factor	96.7 x 10 ⁻⁸ mm ³ /N-M	48.0 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	Washer; ASTM D3702 Modified

Mechanical Properties	Metric	English	Comments
Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	21.6 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	12.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	ASTM E 831
CTE, linear, Transverse to Flow	55.8 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	31.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	ASTM E 831
Deflection Temperature at 1.8 MPa (264 psi)	235 $\text{Å}^\circ\text{C}$	455 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Af
	250 $\text{Å}^\circ\text{C}$ @Thickness 3.20 mm	482 $\text{Å}^\circ\text{F}$ @Thickness 0.126 in	unannealed; ASTM D648
Flammability, UL94	V-0 @Thickness 1.80 mm	V-0 @Thickness 0.0709 in	UL 94 by SABIC-IP

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