

SABIC Innovative Plastics LNP LUBRILOY UA200A PPA

Category : Polymer , Thermoplastic , Polyphthalamide (PPA)

Material Notes:

LNP LUBRILOY* UA200A is a compound based on Polyphthalamide resin containing Aramid Fiber, Proprietary Lubricant. Added feature of this material is: Wear Resistant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRILOY-UA200A-PPA.php

Physical Properties	Metric	English	Comments
Density	1.15 g/cc	0.0415 lb/in ³	ASTM D792
Moisture Absorption	0.420 %	0.420 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0090 - 0.011 cm/cm @Time 86400 sec	0.0090 - 0.011 in/in @Time 24.0 hour	ASTM D955
Linear Mold Shrinkage, Transverse	0.014 - 0.016 cm/cm @Time 86400 sec	0.014 - 0.016 in/in @Time 24.0 hour	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	86.0 MPa	12500 psi	ASTM D638
Elongation at Break	3.3 %	3.3 %	ASTM D638
Tensile Modulus	4.29 GPa	622 ksi	50 mm/min; ASTM D638
Flexural Strength	131 MPa	19000 psi	ASTM D790
Flexural Modulus	3.72 GPa	540 ksi	ASTM D790
Izod Impact, Notched	0.320 J/cm	0.599 ft-lb/in	ASTM D256
Izod Impact, Unnotched	6.03 J/cm	11.3 ft-lb/in	ASTM D4812
Coefficient of Friction, Dynamic	0.25	0.25	ASTM D3702 Modified
Coefficient of Friction, Static	0.21	0.21	ASTM D3702 Modified
K (wear) Factor	10.1 x 10 ⁻⁸ mm ³ /N-M	5.00 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	45.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	25.0 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831

Thermal Properties	Metric	English	Comments
CTE, linear, Transverse to Flow	$50.2 \text{ }^{\circ}\text{C}/\text{m}-^{\circ}\text{C}$ @Temperature -40.0 - 40.0 $^{\circ}\text{C}$	$22.2 \text{ }^{\circ}\text{F}/\text{in}-^{\circ}\text{F}$ @Temperature -40.0 - 104 $^{\circ}\text{F}$	ASTM E 831
Thermal Conductivity	0.290 W/m-K	2.01 BTU-in/hr- $^{\circ}\text{F}$ - $^{\circ}\text{F}$	ASTM E 1530
Deflection Temperature at 0.46 MPa (66 psi)	253 $^{\circ}\text{C}$ @Thickness 3.20 mm	487 $^{\circ}\text{F}$ @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	118 $^{\circ}\text{C}$ @Thickness 3.20 mm	244 $^{\circ}\text{F}$ @Thickness 0.126 in	unannealed; ASTM D648

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