

SABIC Innovative Plastics LNP LUBRICOMP UX06427 PPA

Category : Polymer , Thermoplastic , Polyphthalamide (PPA)

Material Notes:

LNP* LUBRICOMP* UX06427 is a compound based on PPA containing 30% Carbon Fiber, 15% PTFE. Added features of this grade include:
Heat Stabilized, Hot Water Moldable, Wear Resistant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-UX06427-PPA.php

Physical Properties	Metric	English	Comments
Density	1.41 g/cc	0.0509 lb/in ³	ISO 1183
	1.42 g/cc	0.0513 lb/in ³	ASTM D792
Moisture Absorption	0.400 %	0.400 %	50% RH, 24 hrs; ASTM D570
	0.600 %	0.600 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.00060 - 0.00090 cm/cm	0.00060 - 0.00090 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0060 - 0.0090 cm/cm	0.0060 - 0.0090 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	224 MPa	32500 psi	Type I, 5 mm/min; ASTM D638
	227 MPa	32900 psi	5 mm/min; ISO 527
Tensile Strength, Yield	224 MPa	32500 psi	Type I, 5 mm/min; ASTM D638
	227 MPa	32900 psi	5 mm/min; ISO 527
Elongation at Break	1.2 %	1.2 %	Type I, 5 mm/min; ASTM D638
	1.3 %	1.3 %	5 mm/min; ISO 527
Elongation at Yield	1.2 %	1.2 %	Type I, 5 mm/min; ASTM D638
	1.3 %	1.3 %	5 mm/min; ISO 527
Tensile Modulus	22.77 GPa	3303 ksi	1 mm/min; ISO 527
	25.2 GPa	3650 ksi	50 mm/min; ASTM D638
Flexural Strength	311 MPa	45100 psi	1.3 mm/min, 50 mm span; ASTM D790

Flexural Yield Strength Mechanical Properties	309 MPa Metric	44800 psi English	2 mm/min; ISO 178 Comments
	311 MPa	45100 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	17.2 GPa	2490 ksi	1.3 mm/min, 50 mm span; ASTM D790
	19.64 GPa	2849 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.530 J/cm	0.993 ft-lb/in	ASTM D256
Izod Impact, Unnotched	6.46 J/cm	12.1 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)	40.0 kJ/m ²	19.0 ft-lb/in ²	80*10*4; ISO 180/1U
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.34	0.34	ASTM D3702 Modified
Coefficient of Friction, Static	0.33	0.33	ASTM D3702 Modified
K (wear) Factor	52.4 x 10 ⁻⁸ mm ³ /N-M	26.0 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	22.0 Åµm/m-Å°C	12.2 Åµin/in-Å°F	ASTM D696
	@Temperature -30.0 - 30.0 Å°C	@Temperature -22.0 - 86.0 Å°F	
CTE, linear, Transverse to Flow	34.0 Åµm/m-Å°C	18.9 Åµin/in-Å°F	ASTM D696
	@Temperature -30.0 - 30.0 Å°C	@Temperature -22.0 - 86.0 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	298 Å°C	568 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	296 Å°C	565 Å°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	284 Å°C	543 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	284 Å°C	543 Å°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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