

SABIC Innovative Plastics LNP LUBRICOMP PL002 PA 6

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

LNP* LUBRICOMP* PL002 is a compound based on Nylon 6 base resin containing 10% PTFE. Added feature of this grade is: Wear Resistant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-PL002-PA-6.php

Physical Properties	Metric	English	Comments
Density	1.19 g/cc	0.0430 lb/in ³	ASTM D792
	1.19 g/cc	0.0430 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	>= 0.020 cm/cm	>= 0.020 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.010 - 0.030 cm/cm	0.010 - 0.030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	52.0 MPa	7540 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	25 %	25 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	3.73 GPa	541 ksi	50 mm/min; ASTM D638
Flexural Strength	78.0 MPa	11300 psi	ISO 178
Flexural Modulus	2.14 GPa	310 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.470 J/cm	0.881 ft-lb/in	ASTM D256
Izod Impact, Unnotched	11.7 J/cm	21.9 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	4.00 kJ/m ²	1.90 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	67.0 kJ/m ²	31.9 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	9.00 J	6.64 ft-lb	ASTM D3763
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
Impact Test	24.0 J	17.7 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.60	0.60	ASTM D3702 Modified
Coefficient of Friction, Static	0.42	0.42	ASTM D3702 Modified

Mechanical Properties	Metric	English	Comments
	$149 \times 10^{-8} \text{ mm}^2/\text{N}\cdot\text{M}$	$74.0 \times 10^{-10} \text{ in}^2\text{-lb-in}$	Washer: ASTM D3702 Modified
Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	96.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Temperature -30.0 - 30.0 $\text{Å}^\circ\text{C}$	53.3 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @Temperature -22.0 - 86.0 $\text{Å}^\circ\text{F}$	ASTM D696
CTE, linear, Transverse to Flow	95.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Temperature -30.0 - 30.0 $\text{Å}^\circ\text{C}$	52.8 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @Temperature -22.0 - 86.0 $\text{Å}^\circ\text{F}$	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	133 $\text{Å}^\circ\text{C}$	271 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	144 $\text{Å}^\circ\text{C}$ @Thickness 3.20 mm	291 $\text{Å}^\circ\text{F}$ @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	51.0 $\text{Å}^\circ\text{C}$	124 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Af
	54.0 $\text{Å}^\circ\text{C}$ @Thickness 3.20 mm	129 $\text{Å}^\circ\text{F}$ @Thickness 0.126 in	unannealed; ASTM D648

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