

SABIC Innovative Plastics LNP LUBRICOMP 9X06483 PA 46

Category : Polymer , Thermoplastic , Nylon , Nylon 46

Material Notes:

LNP* Lubricomp* 9X06483 is a compound based on a Nylon 4/6 containing PTFE. Added feature of this grade is: Heat Stabilized.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-9X06483-PA-46.php

Physical Properties	Metric	English	Comments
Density	1.28 g/cc	0.0462 lb/in ³	ISO 1183
	1.29 g/cc	0.0466 lb/in ³	ASTM D792
Moisture Absorption	1.80 %	1.80 %	50% RH, 24 hrs; ASTM D570
	2.70 %	2.70 %	23°C / 50% RH; ISO 62
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	0.020 - 0.040 cm/cm	0.020 - 0.040 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	74.0 MPa	10700 psi	Type I, 5 mm/min; ASTM D638
	76.0 MPa	11000 psi	5 mm/min; ISO 527
Tensile Strength, Yield	78.0 MPa	11300 psi	5 mm/min; ISO 527
	80.0 MPa	11600 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	5.9 %	5.9 %	Type I, 5 mm/min; ASTM D638
	6.6 %	6.6 %	5 mm/min; ISO 527
Elongation at Yield	5.8 %	5.8 %	Type I, 5 mm/min; ASTM D638
	6.5 %	6.5 %	5 mm/min; ISO 527
Tensile Modulus	3.00 GPa	435 ksi	1 mm/min; ISO 527
	3.13 GPa	454 ksi	50 mm/min; ASTM D638
Flexural Strength	101 MPa	14600 psi	ISO 178
Flexural Modulus	2.80 GPa	406 ksi	2 mm/min; ISO 178
	2.96 GPa	429 ksi	1.3 mm/min, 50 mm span; ASTM

Mechanical Properties	Metric	English	^{D790} Comments
Izod Impact, Notched	0.520 J/cm	0.974 ft-lb/in	ASTM D256
Izod Impact, Unnotched	9.24 J/cm	17.3 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)	56.0 kJ/m ²	26.6 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	3.00 J	2.21 ft-lb	ASTM D3763
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Coefficient of Friction, Dynamic	0.32	0.32	ASTM D3702 Modified
Coefficient of Friction, Static	0.32	0.32	ASTM D3702 Modified
K (wear) Factor	22.2 x 10 ⁻⁸ mm ³ /N-M	11.0 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	100 µm/m-°C	55.6 µin/in-°F	ASTM D696
	@Temperature -30.0 - 30.0 °C	@Temperature -22.0 - 86.0 °F	
CTE, linear, Transverse to Flow	92.6 µm/m-°C	51.4 µin/in-°F	ASTM D696
	@Temperature -30.0 - 30.0 °C	@Temperature -22.0 - 86.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	276 °C	529 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	283 °C	541 °F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	92.0 °C	198 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	151 °C	304 °F	
	@Thickness 3.20 mm	@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