

## SABIC Innovative Plastics LNP Lubricomp PL004 PA 6

Category : Polymer , Thermoplastic , Nylon , Nylon 6

### Material Notes:

LNP\* Lubricomp\* PL004 is a compound based on Nylon 6 containing PTFE Lubricant. Characteristics of this grade are Internally Lubricated. This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-Lubricomp-PL004-PA-6.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Lubricomp-PL004-PA-6.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.25 g/cc	1.25 g/cc	ASTM D 792
Density	1.25 g/cc	0.0452 lb/in <sup>3</sup>	ASTM D 792
Moisture Absorption at Equilibrium	1.8 %	1.8 %	23°C / 50% RH; ISO 62
	1.1 %	1.1 %	50% RH; ASTM D 570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.010 - 0.030 cm/cm	0.010 - 0.030 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.010 - 0.030 cm/cm	0.010 - 0.030 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	51.0 MPa	7400 psi	Type I, 5 mm/min; ASTM D 638
	59.0 MPa	8560 psi	5 mm/min; ISO 527
Tensile Strength, Yield	59.0 MPa	8560 psi	Type I, 5 mm/min; ASTM D 638
	61.0 MPa	8850 psi	5 mm/min; ISO 527
Elongation at Break	15.4 %	15.4 %	5 mm/min; ISO 527
	31 %	31 %	Type I, 5 mm/min; ASTM D 638
Elongation at Yield	3.9 %	3.9 %	Type I, 5 mm/min; ASTM D 638
	4.0 %	4.0 %	5 mm/min; ISO 527
Tensile Modulus	2.71 GPa	393 ksi	50 mm/min; ASTM D 638
	2.85 GPa	413 ksi	1 mm/min; ISO 527
Flexural Strength	90.0 MPa	13100 psi	ISO 178

Mechanical Properties	Metric	English	Comments
	2.54 GPa	368 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.520 J/cm @Temperature 23.0 Â°C	0.974 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Unnotched	13.5 J/cm @Temperature 23.0 Â°C	25.3 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812
Izod Impact, Notched (ISO)	5.00 kJ/mÂ² @Temperature 23.0 Â°C	2.38 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	96.0 kJ/mÂ² @Temperature 23.0 Â°C	45.7 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603
	5.00 J @Temperature 23.0 Â°C	3.69 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Total Energy; ASTM D 3763
Coefficient of Friction, Dynamic	0.26	0.26	ASTM D 3702 Modified
Coefficient of Friction, Static	0.31	0.31	ASTM D 3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	117 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	65.0 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D 696
CTE, linear, Transverse to Flow	123 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	68.3 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D 696
Deflection Temperature at 0.46 MPa (66 psi)	164 Â°C	327 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	181 Â°C @Thickness 3.20 mm	358 Â°F @Thickness 0.126 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	52.0 Â°C	126 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	53.0 Â°C @Thickness 3.20 mm	127 Â°F @Thickness 0.126 in	unannealed; ASTM D 648

Thermal Properties

Metric

English

Comments

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