

## SABIC Innovative Plastics LNP LUBRICOMP NL001 PC+ABS

Category : Polymer , Thermoplastic , ABS Polymer , Polycarbonate/ABS Alloy, Unreinforced , Polycarbonate (PC)

### Material Notes:

LNP LUBRICOMP\* NL001 is a compound based on PC+ABS resin containing 5% PTFE. Added features include: Wear Resistant, Suitable for Thin Wall Applications.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-LUBRICOMP-NL001-PCABS.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-NL001-PCABS.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.14 g/cc	1.14 g/cc	ASTM D792
Density	1.10 g/cc	0.0397 lb/in <sup>3</sup>	ISO 1183
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm @Thickness 3.20 mm	0.0050 - 0.0070 in/in @Thickness 0.126 in	SABIC Method
Melt Index of Compound	26 g/10 min @Load 5.00 kg, Temperature 260 °C	26 g/10 min @Load 11.0 lb, Temperature 500 °F	MVR [cm <sup>3</sup> /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	40.0 MPa	5800 psi	5 mm/min; ISO 527
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	42.0 MPa	6090 psi	Type I, 50 mm/min; ASTM D638
Tensile Strength, Yield	45.0 MPa	6530 psi	5 mm/min; ISO 527
	50.0 MPa	7250 psi	50 mm/min; ISO 527
	53.0 MPa	7690 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	20 %	20 %	50 mm/min; ISO 527
	24.3 %	24.3 %	Type I, 50 mm/min; ASTM D638
	45 %	45 %	5 mm/min; ISO 527
Elongation at Yield	3.6 %	3.6 %	Type I, 50 mm/min; ASTM D638
	4.0 %	4.0 %	5 mm/min; ISO 527
	4.0 %	4.0 %	50 mm/min; ISO 527
Tensile Modulus	2.30 GPa	334 ksi	1 mm/min; ISO 527
			50 mm/min; ASTM D638

Mechanical Properties	2.40 GPa Metric	348 ksi English	Comments
Flexural Yield Strength	80.0 MPa	11600 psi	2 mm/min; ISO 178
	86.0 MPa	12500 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	2.44 GPa	354 ksi	1.3 mm/min, 50 mm span; ASTM D790
	2.50 GPa	363 ksi	2 mm/min; ISO 178
Izod Impact, Notched	1.60 J/cm	3.00 ft-lb/in	ASTM D256
Izod Impact, Notched (ISO)	10.0 kJ/m <sup>2</sup>	4.76 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
	8.00 kJ/m <sup>2</sup> @Temperature -30.0 °C	3.81 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	80*10*4; ISO 180/1A
Charpy Impact, Notched	1.30 J/cm <sup>2</sup>	6.19 ft-lb/in <sup>2</sup>	Edgew 80*10*4 sp=62mm; ISO 179/1eA
	1.00 J/cm <sup>2</sup> @Temperature -30.0 °C	4.76 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	Edgew 80*10*4 sp=62mm; ISO 179/1eA
Dart Drop, Total Energy	42.0 J	31.0 ft-lb	ASTM D3763
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	70.0 Åµm/m-Å°C	38.9 Åµin/in-Å°F	ISO 11359-2
	@Temperature 23.0 - 80.0 Å°C	@Temperature 73.4 - 176 Å°F	
CTE, linear, Transverse to Flow	87.0 Åµm/m-Å°C	48.3 Åµin/in-Å°F	ISO 11359-2
	@Temperature 23.0 - 80.0 Å°C	@Temperature 73.4 - 176 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	114 Å°C	237 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	115 Å°C @Thickness 3.20 mm	239 Å°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	95.0 Å°C	203 Å°F	Edgew 120*10*4 sp=100mm; ISO 75/Ae
	98.0 Å°C @Thickness 3.20 mm	208 Å°F @Thickness 0.126 in	unannealed; ASTM D648
Vicat Softening Point	113 Å°C	235 Å°F	Rate B/50; ISO 306

Thermal Properties	Metric	English	Comments
Oxygen Index	21 %	21 %	ISO 4589

Electrical Properties	Metric	English	Comments
Volume Resistivity	$\geq 1.00 \times 10^{15}$ ohm-cm	$\geq 1.00 \times 10^{15}$ ohm-cm	IEC 60093
Surface Resistance	$\geq 1.00 \times 10^{15}$ ohm	$\geq 1.00 \times 10^{15}$ ohm	ROA; IEC 60093

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China