

## SABIC Innovative Plastics LNP LUBRICOMP NXC620 PC+ABS

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

### Material Notes:

LNP\* LUBRICOMP\* NXC620 is a compound based on Cycoloy\* XCY620 containing Silicone. Added feature of this material is: Lubricant.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-LUBRICOMP-NXC620-PCABS.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-NXC620-PCABS.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.14 g/cc	1.14 g/cc	ASTM D792
Density	1.13 g/cc	0.0408 lb/in <sup>3</sup>	ASTM D792
Moisture Absorption	0.150 %	0.150 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0060 - 0.0080 cm/cm	0.0060 - 0.0080 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0060 - 0.0080 cm/cm	0.0060 - 0.0080 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Melt Flow	30 g/10 min	30 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 260 °C	@Load 11.0 lb, Temperature 500 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	40.0 MPa	5800 psi	Type I, 5 mm/min; ASTM D638
	42.0 MPa	6090 psi	
Tensile Strength, Yield	49.0 MPa	7110 psi	5 mm/min; ISO 527
	51.0 MPa	7400 psi	
Elongation at Break	31 %	31 %	Type I, 50 mm/min; ASTM D638
	50 %	50 %	
Elongation at Yield	4.7 %	4.7 %	Type I, 50 mm/min; ASTM D638
	4.9 %	4.9 %	
Tensile Modulus	2.09 GPa	303 ksi	1 mm/min; ISO 527
	2.19 GPa	318 ksi	
Flexural Strength	77.0 MPa	11200 psi	ISO 178

Mechanical Properties	79.0 MPa Metric	11500 psi English	1.3 mm/min, 50 mm span; ASTM D790 Comments
Flexural Modulus	2.11 GPa	306 ksi	2 mm/min; ISO 178
	2.22 GPa	322 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	6.54 J/cm	12.3 ft-lb/in	ASTM D256
Izod Impact, Unnotched	NB	NB	ASTM D4812
Izod Impact, Notched (ISO)	48.0 kJ/m <sup>2</sup>	22.8 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
	28.0 kJ/m <sup>2</sup> @Temperature -40.0 °C	13.3 ft-lb/in <sup>2</sup> @Temperature -40.0 °F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	NB	NB	80*10*4; ISO 180/1U
Charpy Impact, Notched	5.10 J/cm <sup>2</sup>	24.3 ft-lb/in <sup>2</sup>	ISO 179/2C
	3.90 J/cm <sup>2</sup> @Temperature -30.0 °C	18.6 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	ISO 179/2C
Coefficient of Friction, Dynamic	0.23	0.23	ASTM D3702 Modified
Coefficient of Friction, Static	0.18	0.18	ASTM D3702 Modified
K (wear) Factor	14.1 x 10 <sup>-8</sup> mm <sup>3</sup> /N-M	7.00 x 10 <sup>-10</sup> in <sup>3</sup> - min/ft-lb-hr	Ring; ASTM D3702 Modified
	2520 x 10 <sup>-8</sup> mm <sup>3</sup> /N-M	1250 x 10 <sup>-10</sup> in <sup>3</sup> - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	73.0 Åµm/m-Å°C @Temperature -30.0 - 30.0 Å°C	40.6 Åµin/in-Å°F @Temperature -22.0 - 86.0 Å°F	ASTM D696
CTE, linear, Transverse to Flow	78.0 Åµm/m-Å°C @Temperature -30.0 - 30.0 Å°C	43.3 Åµin/in-Å°F @Temperature -22.0 - 86.0 Å°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	125 Å°C	257 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
Deflection Temperature at 1.8 MPa (264 psi)	110 Å°C	230 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/ Af
	108 Å°C @Thickness 3.20 mm	226 Å°F @Thickness 0.126 in	unannealed; ASTM D648

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