

## SABIC Innovative Plastics LNP LUBRICOMP ML004S PP

Category : Polymer , Thermoplastic , Polypropylene (PP)

### Material Notes:

LNP\* LUBRICOMP\* ML004S is a compound based on Polypropylene resin containing 20% PTFE. Added features of this material include:  
Wear Resistant, Heat Stabilized.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-LUBRICOMP-ML004S-PP.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-ML004S-PP.php)

Physical Properties	Metric	English	Comments
Density	1.03 g/cc	0.0372 lb/in <sup>3</sup>	ASTM D792
Moisture Absorption	0.0200 %	0.0200 %	50% RH, 24 hrs; ASTM D570
	0.0200 %	0.0200 %	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	29.0 MPa	4210 psi	5 mm/min; ISO 527
	30.0 MPa	4350 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	31.0 MPa	4500 psi	5 mm/min; ISO 527
	33.0 MPa	4790 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	13 %	13 %	5 mm/min; ISO 527
	15 %	15 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	5.0 %	5.0 %	5 mm/min; ISO 527
	5.6 %	5.6 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	1.66 GPa	241 ksi	1 mm/min; ISO 527
	2.02 GPa	293 ksi	5 mm/min; ASTM D638
Flexural Strength	44.0 MPa	6380 psi	ISO 178
Flexural Yield Strength	47.0 MPa	6820 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	1.69 GPa	245 ksi	2 mm/min; ISO 178

Mechanical Properties	Metric	English	Comments
	1.76 GPa	255 ksi	1.4 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.440 J/cm	0.824 ft-lb/in	ASTM D256
Izod Impact, Unnotched	3.48 J/cm	6.52 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	3.00 kJ/m <sup>2</sup>	1.43 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	22.0 kJ/m <sup>2</sup>	10.5 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U
Dart Drop, Total Energy	6.00 J @Temperature 23.0 Â°C	4.43 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	1.00 J	0.738 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.77	0.77	ASTM D3702 Modified
Coefficient of Friction, Static	0.62	0.62	ASTM D3702 Modified
K (wear) Factor	12.1 x 10 <sup>-8</sup> mm <sup>3</sup> /N-M	6.00 x 10 <sup>-10</sup> in <sup>3</sup> - min/ft-lb-hr	Ring; ASTM D3702 Modified
	346 x 10 <sup>-8</sup> mm <sup>3</sup> /N-M	172 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	91.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	50.6 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	39.8 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	22.1 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	105 Â°C	221 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	119 Â°C @Thickness 3.20 mm	246 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	60.0 Â°C	140 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	65.0 Â°C @Thickness 3.20 mm	149 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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