

## SABIC Innovative Plastics LNP Lubricomp DP0039 PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

### Material Notes:

LNP\* Lubricomp\* DP0039 is a Polycarbonate base resin containing PTFE and Silicone lubricants. Characteristics are: Flame Retardant. 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-DP0039-PC.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Lubricomp-DP0039-PC.php)

Physical Properties	Metric	English	Comments
Density	1.29 g/cc	0.0466 lb/in <sup>3</sup>	ISO 1183
	1.30 g/cc	0.0470 lb/in <sup>3</sup>	ASTM D 792
Moisture Absorption at Equilibrium	0.19 %	0.19 %	23 <sup>o</sup> C / 50% RH; ISO 62
	0.12 %	0.12 %	50% RH; ASTM D 570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0070 - 0.0090 cm/cm	0.0070 - 0.0090 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	43.0 MPa	6240 psi	5 mm/min; ISO 527
	46.0 MPa	6670 psi	Type I, 5 mm/min; ASTM D 638
Tensile Strength, Yield	51.0 MPa	7400 psi	5 mm/min; ISO 527
	53.0 MPa	7690 psi	Type I, 5 mm/min; ASTM D 638
Elongation at Break	23.3 %	23.3 %	5 mm/min; ISO 527
	36.8 %	36.8 %	Type I, 5 mm/min; ASTM D 638
Elongation at Yield	5.4 %	5.4 %	5 mm/min; ISO 527
	53.6 %	53.6 %	Type I, 5 mm/min; ASTM D 638
Tensile Modulus	2.14 GPa	310 ksi	1 mm/min; ISO 527
	2.29 GPa	332 ksi	50 mm/min; ASTM D 638
Flexural Strength	69.0 MPa	10000 psi	ISO 178

Mechanical Properties	Metric	English	Comments
Flexural Yield Strength	84.0 MPa	12200 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Modulus	2.12 GPa	307 ksi	2 mm/min; ISO 178
	2.32 GPa	336 ksi	1.3 mm/min, 50 mm span; ASTM D 790
Izod Impact, Notched	2.92 J/cm @Temperature 23.0 Â°C	5.47 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Unnotched	16.7 J/cm @Temperature 23.0 Â°C	31.3 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812
Izod Impact, Notched (ISO)	23.0 kJ/mÂ² @Temperature 23.0 Â°C	10.9 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	175 kJ/mÂ² @Temperature 23.0 Â°C	83.3 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U
Impact Test	20.0 J	14.8 ft-lb	Multiaxial Impact; ISO 6603
	33.0 J @Temperature 23.0 Â°C	24.3 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	0.11	0.11	ASTM D 3702 Modified
K (wear) Factor	90.6 x 10 <sup>-8</sup> mmÂ³/N-M	45.0 x 10 <sup>-10</sup> inÂ³- min/ft-lb-hr	Washer; ASTM D 3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	70.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	38.9 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D 696
CTE, linear, Transverse to Flow	70.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	38.9 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D 696
Deflection Temperature at 0.46 MPa (66 psi)	135 Â°C	275 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	136 Â°C	277 Â°F	

Thermal Properties	Metric @ Thickness 3.20 mm	English @ Thickness 0.126 in	unannealed; ASTM D 648 Comments
Deflection Temperature at 1.8 MPa (264 psi)	122 Â°C	252 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	122 Â°C @Thickness 3.20 mm	252 Â°F @Thickness 0.126 in	unannealed; ASTM D 648
Flammability, UL94	V-0 @Thickness 1.70 mm	V-0 @Thickness 0.0669 in	UL 94 by SABIC-IP

## 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