

## SABIC Innovative Plastics LNP Lubriloy D20001 PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

### Material Notes:

LNP LUBRILLOY\* D20001 is a compound based on Polycarbonate resin containing Flame Retardant, Proprietary Lubricant. Added features of this material include: 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-Lubriloy-D20001-PC.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Lubriloy-D20001-PC.php)

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in <sup>3</sup>	ASTM D 792
	1.20 g/cc	0.0434 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption at Equilibrium	0.12 %	0.12 %	23°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0050 cm/cm	0.0050 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0053 cm/cm	0.0053 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0057 cm/cm	0.0057 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0060 cm/cm	0.0060 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	54.0 MPa	7830 psi	ISO 527
	60.0 MPa	8700 psi	ASTM D 638
Tensile Strength, Yield	62.0 MPa	8990 psi	ISO 527
	67.0 MPa	9720 psi	ASTM D 638
Elongation at Break	6.5 %	6.5 %	ASTM D 638
	6.7 %	6.7 %	ISO 527
Elongation at Yield	4.3 %	4.3 %	ISO 527
	4.5 %	4.5 %	ASTM D 638
Tensile Modulus	2.55 GPa	370 ksi	50 mm/min; ASTM D 638

Mechanical Properties	2.60 GPa Metric	377 ksi English	1 mm/min: ISO 527 Comments
Flexural Strength	102 MPa	14800 psi	ISO 178
	103 MPa	14900 psi	ASTM D 790
Flexural Modulus	2.80 GPa	406 ksi	ISO 178
	2.82 GPa	409 ksi	ASTM D 790
Izod Impact, Notched	0.640 J/cm	1.20 ft-lb/in	ASTM D 256
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Izod Impact, Unnotched	16.12 J/cm	30.20 ft-lb/in	ASTM D 4812
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Izod Impact, Notched (ISO)	6.00 kJ/mÂ²	2.86 ft-lb/inÂ²	80*10*4; ISO 180/1A
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Izod Impact, Unnotched (ISO)	104 kJ/mÂ²	49.5 ft-lb/inÂ²	80*10*4; ISO 180/1U
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Impact Test	51.0 J	37.6 ft-lb	Instrumented Impact Energy @ peak; ASTM D 3763
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Coefficient of Friction, Dynamic	0.090	0.090	ASTM D 3702 Modified
Coefficient of Friction, Static	0.22	0.22	ASTM D 3702 Modified
K (wear) Factor	60.4 x 10 <sup>-8</sup> mmÂ³/N-M	30.0 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	65.7 Âµm/m-Â°C	36.5 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	65.7 Âµm/m-Â°C	36.5 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
CTE, linear, Transverse to Flow	66.5 Âµm/m-Â°C	36.9 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	66.6 Âµm/m-Â°C	37.0 Âµin/in-Â°F	

Thermal Properties	Metric @ Temperature -40.0 - 40.0 Â°C	English @ Temperature -40.0 - 104 Â°F	Comments
Deflection Temperature at 0.46 MPa (66 psi)	97.0 Â°C @Thickness 3.20 mm	207 Â°F @Thickness 0.126 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	94.0 Â°C @Thickness 3.20 mm	201 Â°F @Thickness 0.126 in	Flatw 80*10*4 sp=64mm; ISO 75/Af
	89.0 Â°C @Thickness 3.20 mm	192 Â°F @Thickness 0.126 in	unannealed; ASTM D 648
Flammability, UL94	V-0 @Thickness 1.50 mm	V-0 @Thickness 0.0591 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