

## SABIC Innovative Plastics LNP LUBRILOY DF204 PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

### Material Notes:

LNP\* LUBRILOY\* DF204 is a compound based on Polycarbonate resin containing 20% Glass Fiber, Proprietary Lubricant. Added feature of this grade is: Wear Resistant.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-LUBRILOY-DF204-PC.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRILOY-DF204-PC.php)

Physical Properties	Metric	English	Comments
Density	1.32 g/cc	0.0477 lb/in <sup>3</sup>	ASTM D792
Moisture Absorption	0.100 %	0.100 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0020 - 0.0030 cm/cm @Time 86400 sec	0.0020 - 0.0030 in/in @Time 24.0 hour	ASTM D955
Linear Mold Shrinkage, Transverse	0.0020 - 0.0030 cm/cm @Time 86400 sec	0.0020 - 0.0030 in/in @Time 24.0 hour	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	105 MPa	15200 psi	ASTM D638
Elongation at Break	2.8 %	2.8 %	ASTM D638
Tensile Modulus	6.75 GPa	979 ksi	50 mm/min; ASTM D638
Flexural Strength	158 MPa	22900 psi	ASTM D790
Flexural Modulus	5.99 GPa	869 ksi	ASTM D790
Izod Impact, Notched	1.81 J/cm	3.39 ft-lb/in	ASTM D256
Izod Impact, Unnotched	7.58 J/cm	14.2 ft-lb/in	ASTM D4812
Coefficient of Friction, Dynamic	0.41	0.41	ASTM D3702 Modified
Coefficient of Friction, Static	0.39	0.39	ASTM D3702 Modified
K (wear) Factor	361 x 10 <sup>-8</sup> mm <sup>3</sup> /N-M	179 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	73.8 Åµm/m-Å°C @Temperature -40.0 - 40.0 Å°C	41.0 Åµin/in-Å°F @Temperature -40.0 - 104 Å°F	ASTM E 831

Thermal Properties	Metric	English	Comments
CTE, linear, Transverse to Flow	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	ASTM E 831
Thermal Conductivity	0.250 W/m-K	1.74 BTU-in/hr-Å²-Å°F	ASTM E 1530
Deflection Temperature at 0.46 MPa (66 psi)	142 Å°C @Thickness 3.20 mm	288 Å°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	137 Å°C @Thickness 3.20 mm	279 Å°F @Thickness 0.126 in	unannealed; ASTM D648

## Contact Songhan Plastic Technology Co.,Ltd.

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