

## LNP Lubricomp® PDX-O-97635 Polyphenylene Sulfide, Carbon Fiber Reinforced, PTFE Lubricant (discontinued \*\*)&l

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS) , Polyphenylene Sulfide (PPS) with Carbon Fiber + PTFE Filler

### Material Notes:

Features: LubricatedForms: PelletsProcessing Method: Injection MoldingInformation provided by LNP, a GE Plastics Company.This data sheet is labeled Discontinued; however many LNP grades are still active under new names instituted after the SABIC purchase.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_LNP-Lubricomp-PDX-O-97635-Polyphenylene-Sulfide-Carbon-Fiber-Reinforced-PTFE-Lubricant-nbspdiscontinued-l.php](http://www.lookpolymers.com/polymer_LNP-Lubricomp-PDX-O-97635-Polyphenylene-Sulfide-Carbon-Fiber-Reinforced-PTFE-Lubricant-nbspdiscontinued-l.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.55 g/cc	1.55 g/cc	Method A; ASTM D792
Density	1.55 g/cc	0.0560 lb/in <sup>3</sup>	ISO 1183
Linear Mold Shrinkage	0.0010 cm/cm	0.0010 in/in	ASTM D955
Linear Mold Shrinkage, Transverse	0.0040 cm/cm	0.0040 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	121 MPa	17500 psi	ASTM D638
Elongation at Break	0.80 %	0.80 %	ASTM D638
Tensile Modulus	23.0 GPa	3340 ksi	ASTM D638
Flexural Strength	248 MPa	36000 psi	ASTM D790
Flexural Modulus	24.5 GPa	3550 ksi	ASTM D790
Izod Impact, Notched	0.480 J/cm @Thickness 3.18 mm	0.899 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Unnotched	3.95 J/cm @Thickness 3.18 mm	7.40 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Notched (ISO)	5.70 kJ/m <sup>2</sup>	2.71 ft-lb/in <sup>2</sup>	ISO 180
Izod Impact, Unnotched (ISO)	24.2 kJ/m <sup>2</sup>	11.5 ft-lb/in <sup>2</sup>	ISO 180
Falling Dart Impact	4.50 J	3.32 ft-lb	ASTM D3763
Impact Test	2.19 J	1.62 ft-lb	Multi-Axial Instrumented Impact Energy; ISO 6603-2
Coefficient of Friction, Dynamic	0.36	0.36	vs. Steel - @ 40 psi, 50 ft/min, tested in accordance with LNP WI-0687; ASTM D1894

Mechanical Properties	Metric	English	Comments
Coefficient of Friction, Static	0.32	0.32	40 psi, tested in accordance with LNP WI-0687, ASTM D1894
K (wear) Factor	94.7 x 10 <sup>-8</sup> mm <sup>3</sup> /N-M	47.0 x 10 <sup>-10</sup> in <sup>3</sup> -min/ft-lb-hr	40psi, 50ft/min; tested in accordance with LNP WI-0687

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	269 °C	516 °F	Unannealed; ASTM D648

Processing Properties	Metric	English	Comments
Melt Temperature	316 - 321 °C	601 - 610 °F	
Mold Temperature	135 - 163 °C	275 - 325 °F	
Drying Temperature	121 - 149 °C	250 - 300 °F	
Dry Time	4 hour	4 hour	
Back Pressure	0.172 - 0.345 MPa	24.9 - 50.0 psi	

## Contact Songhan Plastic Technology Co.,Ltd.

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