

## SABIC Innovative Plastics LNP LUBRICOMP PDXF89080 PE

Category : Polymer , Thermoplastic , Polyethylene (PE)

### Material Notes:

LNP\* LUBRICOMP\* PDXF89080 is a compound based on Polyethylene containing Proprietary Fillers. Added feature of this grade is: Wear Resistant.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-LUBRICOMP-PDXF89080-PE.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-PDXF89080-PE.php)

Physical Properties	Metric	English	Comments
Specific Gravity	0.920 g/cc	0.920 g/cc	ASTM D792
Density	0.920 g/cc	0.0332 lb/in <sup>3</sup>	ASTM D792
Moisture Absorption	0.0300 %	0.0300 %	50% RH, 24 hrs; ASTM D570
	0.0300 %	0.0300 %	23 <sup>o</sup> 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	0.010 - 0.030 cm/cm	0.010 - 0.030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	8.00 MPa	1160 psi	5 mm/min; ISO 527
	9.00 MPa	1310 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	9.00 MPa	1310 psi	5 mm/min; ISO 527
	10.0 MPa	1450 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	90 %	90 %	Type I, 5 mm/min; ASTM D638
	164 %	164 %	5 mm/min; ISO 527
Elongation at Yield	73 %	73 %	Type I, 5 mm/min; ASTM D638
	88 %	88 %	5 mm/min; ISO 527
Tensile Modulus	0.200 GPa	29.0 ksi	5 mm/min; ASTM D638
	0.240 GPa	34.8 ksi	1 mm/min; ISO 527
Flexural Strength	5.00 MPa	725 psi	ISO 178
Flexural Modulus	0.120 GPa	17.4 ksi	1.3 mm/min, 50 mm span; ASTM D790

Mechanical Properties	Metric U. 120 GPa	English 17.4 Ksi	Comments 2 mm/min; ISO 178
Izod Impact, Notched	3.04 J/cm	5.70 ft-lb/in	ASTM D256
Izod Impact, Unnotched	NB	NB	ASTM D4812
Izod Impact, Notched (ISO)	37.0 kJ/m <sup>2</sup>	17.6 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	NB	NB	80*10*4; ISO 180/1U
Dart Drop, Total Energy	19.0 J @Temperature 23.0 Â°C	14.0 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	19.0 J	14.0 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	208 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	116 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	199 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	111 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	41.0 Â°C	106 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	42.0 Â°C @Thickness 3.20 mm	108 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	23.0 Â°C	73.4 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	23.0 Â°C @Thickness 3.20 mm	73.4 Â°F @Thickness 0.126 in	unannealed; ASTM D648

## Contact Songhan Plastic Technology Co.,Ltd.

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