

## SABIC Innovative Plastics LNP LUBRICOMP DX09407H PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

### Material Notes:

LNP\* LUBRICOMP\* DX09407H is a compound based on High Heat Polycarbonate containing proprietary fillers. Added features of this grade are: Wear Resistant, Healthcare.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-LUBRICOMP-DX09407H-PC.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-DX09407H-PC.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.21 g/cc	1.21 g/cc	ASTM D792
Moisture Absorption	0.210 %	0.210 %	23Â°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm @Time 86400 sec	0.0050 - 0.0070 in/in @Time 24.0 hour	ASTM D955
Linear Mold Shrinkage, Transverse	0.0060 - 0.0080 cm/cm @Time 86400 sec	0.0060 - 0.0080 in/in @Time 24.0 hour	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	53.0 MPa	7690 psi	Type I, 5 mm/min; ASTM D638
	56.0 MPa	8120 psi	5 mm/min; ISO 527
Tensile Strength, Yield	64.0 MPa	9280 psi	Type I, 5 mm/min; ASTM D638
	64.0 MPa	9280 psi	5 mm/min; ISO 527
Elongation at Break	68 %	68 %	Type I, 5 mm/min; ASTM D638
	76.8 %	76.8 %	Flexural Strain, break, 2 mm/min; ISO 178
	111 %	111 %	5 mm/min; ISO 527
Elongation at Yield	6.8 %	6.8 %	Type I, 5 mm/min; ASTM D638
	6.9 %	6.9 %	5 mm/min; ISO 527
Tensile Modulus	2.13 GPa	309 ksi	1 mm/min; ISO 527
	2.23 GPa	323 ksi	5 mm/min; ASTM D638
Flexural Strength	90.0 MPa	13100 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	2.08 GPa	302 ksi	2 mm/min; ISO 178

Mechanical Properties	2.30 GPa Metric	334 ksi English	1.3 mm/min, 50 mm span; ASTM D790 Comments
Izod Impact, Notched	1.39 J/cm	2.60 ft-lb/in	ASTM D256
Izod Impact, Unnotched	22.14 J/cm	41.48 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	11.0 kJ/m <sup>2</sup>	5.23 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	191 kJ/m <sup>2</sup>	90.9 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	74.3 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	41.3 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
CTE, linear, Transverse to Flow	76.7 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	42.6 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 1.8 MPa (264 psi)	137 $\text{Å}^\circ\text{C}$	279 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Af  unannealed; ASTM D648
	139 $\text{Å}^\circ\text{C}$ @Thickness 3.20 mm	282 $\text{Å}^\circ\text{F}$ @Thickness 0.126 in	

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