

## SABIC Innovative Plastics LNP LUBRICOMP HAL23 PA11 (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Nylon , Nylon 11

### Material Notes:

LNP\* LUBRICOMP\* HAL23 is a compound based on PA 11 resin containing Aramid Fiber, PTFE. Added features include: Internally Lubricated.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-LUBRICOMP-HAL23-PA11-Europe-Africa-Middle-East.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-HAL23-PA11-Europe-Africa-Middle-East.php)

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in <sup>3</sup>	ISO 1183
Linear Mold Shrinkage, Flow	0.011 cm/cm	0.011 in/in	SABIC Method

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	42.0 MPa	6090 psi	5 mm/min; ISO 527
Tensile Strength, Yield	45.0 MPa	6530 psi	5 mm/min; ISO 527
Elongation at Yield	17 %	17 %	5 mm/min; ISO 527
Tensile Modulus	1.40 GPa	203 ksi	1 mm/min; ISO 527
Flexural Yield Strength	54.0 MPa	7830 psi	2 mm/min; ISO 178
Flexural Modulus	1.90 GPa	276 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	7.00 kJ/m <sup>2</sup>	3.33 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	40.0 kJ/m <sup>2</sup>	19.0 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	80.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	44.4 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
	@Temperature 23.0 - 60.0 $\text{Å}^\circ\text{C}$	@Temperature 73.4 - 140 $\text{Å}^\circ\text{F}$	
CTE, linear, Transverse to Flow	140 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	77.8 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
	@Temperature 23.0 - 60.0 $\text{Å}^\circ\text{C}$	@Temperature 73.4 - 140 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	174 $\text{Å}^\circ\text{C}$	345 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Bf
Deflection Temperature at 1.8 MPa (264 psi)	72.0 $\text{Å}^\circ\text{C}$	162 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Af

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