

SABIC Innovative Plastics LNP LUBRICOMP RAL23 PA 66 (Asia Pacific)

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP LUBRICOMP* RAL23 is a compound based on Nylon 66 resin containing Aramid Fiber, PTFE. Added features of this material include:
Internally Lubricated.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-RAL23-PA-66-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	1.23 g/cc	0.0444 lb/in ³	ISO 1183
	1.24 g/cc	0.0448 lb/in ³	ASTM D792
Linear Mold Shrinkage, Flow	0.017 - 0.018 cm/cm	0.017 - 0.018 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.020 - 0.021 cm/cm	0.020 - 0.021 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	85.0 MPa	12300 psi	ISO 527
	89.0 MPa	12900 psi	ASTM D638
Elongation at Break	5.9 %	5.9 %	ASTM D638
	6.3 %	6.3 %	ISO 527
Tensile Modulus	3.68 GPa	534 ksi	50 mm/min; ASTM D638
	3.80 GPa	551 ksi	1 mm/min; ISO 527
Flexural Strength	107 MPa	15500 psi	ISO 178
	131 MPa	19000 psi	ASTM D790
Flexural Modulus	3.50 GPa	508 ksi	ISO 178
	3.93 GPa	570 ksi	ASTM D790
Izod Impact, Notched	0.460 J/cm	0.862 ft-lb/in	ASTM D256
Izod Impact, Unnotched	5.34 J/cm	10.0 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	4.00 kJ/m ²	1.90 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	37.0 kJ/m ²	17.6 ft-lb/in ²	80*10*4; ISO 180/1U

Mechanical Properties <i>Dynamic</i>	Metric	English	Comments <i>12 Modified</i>
Coefficient of Friction, Static	0.32	0.32	ASTM D3702 Modified
K (wear) Factor	$46.3 \times 10^{-8} \text{ mm}^3/\text{N}\cdot\text{m}$	$23.0 \times 10^{-10} \text{ in}^3\text{-min}/\text{ft}\cdot\text{lb}\cdot\text{hr}$	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	66.6 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	37.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
	68.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	37.8 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	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	97.2 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	54.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	246 $\text{Å}^\circ\text{C}$	475 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Bf
Deflection Temperature at 1.8 MPa (264 psi)	160 $\text{Å}^\circ\text{C}$	320 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/ Af
	171 $\text{Å}^\circ\text{C}$	340 $\text{Å}^\circ\text{F}$	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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