

SABIC Innovative Plastics LNP LUBRICOMP RX05495 PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP LUBRICOMP* RX05495 is a compound based on Nylon 66 resin containing Glass Bead, Graphite, Glass Fiber. Added features of this material include: Easy Molding.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-RX05495-PA-66.php

Physical Properties	Metric	English	Comments
Density	1.38 g/cc	0.0499 lb/in ³	ASTM D792
	1.38 g/cc	0.0499 lb/in ³	ISO 1183
Moisture Absorption	0.840 %	0.840 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0046 cm/cm	0.0046 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0050 cm/cm	0.0050 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.015 cm/cm	0.015 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.015 cm/cm	0.015 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	112 MPa	16200 psi	ISO 527
	117 MPa	17000 psi	ASTM D638
Elongation at Break	2.8 %	2.8 %	ASTM D638
	2.9 %	2.9 %	ISO 527
Tensile Modulus	7.50 GPa	1090 ksi	1 mm/min; ISO 527
	7.99 GPa	1160 ksi	50 mm/min; ASTM D638
Flexural Strength	173 MPa	25100 psi	ASTM D790
	176 MPa	25500 psi	ISO 178
Flexural Modulus	6.13 GPa	889 ksi	ASTM D790

Mechanical Properties	7.10 GPa Metric	1030 ksi English	ISO 178 Comments
Izod Impact, Notched	0.530 J/cm	0.993 ft-lb/in	ASTM D256
Izod Impact, Unnotched	6.67 J/cm	12.5 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	6.00 kJ/m ²	2.86 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	45.0 kJ/m ²	21.4 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	10.0 J	7.38 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	255 Â°C @Thickness 3.20 mm	491 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	229 Â°C	444 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	233 Â°C @Thickness 3.20 mm	451 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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