

SABIC Innovative Plastics LNP Thermocomp RX06423 PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP* Thermocomp* RX06423 is a compound based on Nylon 66 resin containing Glass Fiber. Added features of this material include: Easy Molding, Heat Stabilized, UV Stabilized. This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Thermocomp-RX06423-PA-66.php

Physical Properties	Metric	English	Comments
Density	1.74 g/cc	0.0629 lb/in ³	ASTM D 792
	1.74 g/cc	0.0629 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.40 %	0.40 %	50% RH; ASTM D 570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0037 cm/cm	0.0037 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0040 cm/cm	0.0040 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0095 cm/cm	0.0095 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.010 cm/cm	0.010 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	218 MPa	31600 psi	ASTM D 638
	225 MPa	32600 psi	ISO 527
Tensile Strength, Yield	218 MPa	31600 psi	ASTM D 638
	225 MPa	32600 psi	ISO 527
Elongation at Break	2.0 %	2.0 %	ASTM D 638
	2.1 %	2.1 %	ISO 527
Elongation at Yield	2.0 %	2.0 %	ASTM D 638
	2.1 %	2.1 %	ISO 527
Tensile Modulus	21.1 GPa	3060 ksi	1 mm/min; ISO 527

Mechanical Properties	Metric 22.06 GPa	English 3200 ksi	Comments 50 mm/min; ASTM D 638
Flexural Strength	317 MPa	46000 psi	ASTM D 790
	340 MPa	49300 psi	ISO 178
Flexural Modulus	17.92 GPa	2599 ksi	ASTM D 790
	19.0 GPa	2760 ksi	ISO 178
Izod Impact, Notched	1.22 J/cm @Temperature 23.0 Â°C	2.29 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Unnotched	11.69 J/cm @Temperature 23.0 Â°C	21.90 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812
Izod Impact, Notched (ISO)	12.0 kJ/mÂ² @Temperature 23.0 Â°C	5.71 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	75.0 kJ/mÂ² @Temperature 23.0 Â°C	35.7 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U
Impact Test	4.00 J	2.95 ft-lb	Multiaxial Impact; ISO 6603
	13.0 J @Temperature 23.0 Â°C	9.59 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Energy @ peak; ASTM D 3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	39.6 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	22.0 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
	40.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	22.2 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
CTE, linear, Transverse to Flow	16.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	8.89 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
	16.2 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	9.00 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (67 psi)	237 Â°C @Thickness 3.20 mm	459 Â°F @Thickness 0.126 in	Flatw 80*10*4 sp=64mm; ISO 75/Bf unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	234 Â°C @Thickness 3.20 mm	453 Â°F @Thickness 0.126 in	Flatw 80*10*4 sp=64mm; ISO 75/Af unannealed; ASTM D 648

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