

SABIC Innovative Plastics LNP THERMOCOMP RX06421S PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP* Thermocomp* RX06421S is a compound based on Nylon 66 resin containing 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-THERMOCOMP-RX06421S-PA-66.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.39 g/cc	1.39 g/cc	ASTM D792
Density	1.38 g/cc	0.0499 lb/in ³	ASTM D792
Moisture Absorption	0.750 %	0.750 %	50% RH, 24 hrs; ASTM D570
	1.20 %	1.20 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.010 - 0.030 cm/cm	0.010 - 0.030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	181 MPa	26300 psi	Type I, 5 mm/min; ASTM D638
	181 MPa	26300 psi	5 mm/min; ISO 527
Elongation at Break	2.6 %	2.6 %	Type I, 5 mm/min; ASTM D638
	2.6 %	2.6 %	5 mm/min; ISO 527
Tensile Modulus	10.55 GPa	1530 ksi	1 mm/min; ISO 527
	11.0 GPa	1600 ksi	50 mm/min; ASTM D638
Flexural Strength	264 MPa	38300 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	9.48 GPa	1370 ksi	2 mm/min; ISO 178
	9.62 GPa	1400 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.920 J/cm	1.72 ft-lb/in	ASTM D256
Izod Impact, Unnotched	9.69 J/cm	18.2 ft-lb/in	ASTM D4812

Izod Impact Notched (ISO) Mechanical Properties	9.00 kJ/m ² Metric	4.28 ft-lb/in ² English	80*10*4- ISO 180/1A Comments
Izod Impact, Unnotched (ISO)	57.0 kJ/m ²	27.1 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	8.00 J @Temperature 23.0 Â°C	5.90 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	25.2 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	14.0 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	104 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	57.8 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	256 Â°C	493 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	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)	239 Â°C	462 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	243 Â°C @Thickness 3.20 mm	469 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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