

SABIC Innovative Plastics LNP THERMOCOMP RF0039S PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP THERMOCOMP® RF0039S is a compound based on Nylon 66 resin containing 15% Glass Fiber, Flame Retardant. Added features of this material include: Flame Retardant, Heat Stabilized.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-RF0039S-PA-66.php

Physical Properties	Metric	English	Comments
Density	1.48 g/cc	0.0535 lb/in ³	ISO 1183
	1.487 g/cc	0.05372 lb/in ³	ASTM D792
Moisture Absorption	0.490 %	0.490 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0089 cm/cm	0.0089 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0090 cm/cm	0.0090 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0129 cm/cm	0.0129 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.013 cm/cm	0.013 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	98.0 MPa	14200 psi	ISO 527
	100 MPa	14500 psi	ASTM D638
Elongation at Break	2.9 %	2.9 %	ISO 527
	3.0 %	3.0 %	ASTM D638
Tensile Modulus	6.06 GPa	879 ksi	50 mm/min; ASTM D638
	6.30 GPa	914 ksi	1 mm/min; ISO 527
Flexural Strength	160 MPa	23200 psi	ASTM D790
	164 MPa	23800 psi	ISO 178
Flexural Modulus	5.17 GPa	750 ksi	ASTM D790

Mechanical Properties	6.00 GPa Metric	870 ksi English	ISO 178 Comments
Izod Impact, Notched	0.420 J/cm	0.787 ft-lb/in	ASTM D256
Izod Impact, Unnotched	5.23 J/cm	9.80 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	5.00 kJ/m ²	2.38 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	38.0 kJ/m ²	18.1 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	5.00 J	3.69 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	1.00 J	0.738 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	251 Â°C @Thickness 3.20 mm	484 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	219 Â°C	426 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	226 Â°C @Thickness 3.20 mm	439 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Flammability, UL94	V-0 @Thickness 1.70 mm	V-0 @Thickness 0.0669 in	UL 94 by SABIC-IP

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