

SABIC Innovative Plastics LNP THERMOCOMP RF0069SZ PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP* THERMOCOMP* RF0069SZ is a compound based on Nylon 66 resin containing 30% Glass Fiber. Added features of th is grade include:
Flame Retardant, Heat Stabilized.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-RF0069SZ-PA-66.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.67 g/cc	1.67 g/cc	ASTM D792
Density	1.66 g/cc	0.0600 lb/in ³	ASTM D792
Moisture Absorption	0.400 %	0.400 %	50% RH, 24 hrs; ASTM D570
	0.790 %	0.790 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 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	157 MPa	22800 psi	Type I, 5 mm/min; ASTM D638
	157 MPa	22800 psi	5 mm/min; ISO 527
Elongation at Break	1.8 %	1.8 %	5 mm/min; ISO 527
	2.0 %	2.0 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	12.82 GPa	1859 ksi	1 mm/min; ISO 527
	12.84 GPa	1862 ksi	50 mm/min; ASTM D638
Flexural Strength	217 MPa	31500 psi	ISO 178
	221 MPa	32100 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	11.03 GPa	1600 ksi	2 mm/min; ISO 178
	11.4 GPa	1650 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.660 J/cm	1.24 ft-lb/in	ASTM D256

Izod Impact, Unnotched Mechanical Properties	6.40 J/cm Metric	12.0 ft-lb/in English	ASTM D4812 Comments
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)	37.0 kJ/m ²	17.6 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	6.00 J @Temperature 23.0 Â°C	4.43 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	1.00 J	0.738 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	27.0 Âµm/m-Â°C	15.0 Âµin/in-Â°F	ASTM D696
	@Temperature -30.0 - 30.0 Â°C	@Temperature -22.0 - 86.0 Â°F	
CTE, linear, Transverse to Flow	53.0 Âµm/m-Â°C	29.4 Âµin/in-Â°F	ASTM D696
	@Temperature -30.0 - 30.0 Â°C	@Temperature -22.0 - 86.0 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	246 Â°C	475 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	246 Â°C @Thickness 3.20 mm	475 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	227 Â°C	441 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	231 Â°C @Thickness 3.20 mm	448 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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