

SABIC Innovative Plastics LNP THERMOCOMP RF0029S PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP* THERMOCOMP* RF0029S is a compound based on Nylon 66 resin containing 10% Glass Fiber. 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-RF0029S-PA-66.php

Physical Properties	Metric	English	Comments
Density	1.48 g/cc	0.0535 lb/in ³	ASTM D792
	1.48 g/cc	0.0535 lb/in ³	ISO 1183
Moisture Absorption	0.500 %	0.500 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0098 cm/cm	0.0098 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0090 - 0.011 cm/cm	0.0090 - 0.011 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.012 - 0.014 cm/cm	0.012 - 0.014 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.013 cm/cm	0.013 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	101 MPa	14600 psi	ASTM D638
	102 MPa	14800 psi	ISO 527
Tensile Strength, Yield	101 MPa	14600 psi	ASTM D638
	102 MPa	14800 psi	ISO 527
Elongation at Break	2.4 %	2.4 %	ISO 527
	2.5 %	2.5 %	ASTM D638
Elongation at Yield	2.4 %	2.4 %	ISO 527
	2.5 %	2.5 %	ASTM D638
Tensile Modulus	6.37 GPa	924 ksi	1 mm/min; ISO 527

Mechanical Properties	6.89 GPa Metric	999 ksi English	50 mm/min; ASTM D638 Comments
Flexural Strength	150 MPa	21800 psi	ISO 178
	151 MPa	21900 psi	ASTM D790
Flexural Modulus	5.51 GPa	799 ksi	ASTM D790
	5.90 GPa	856 ksi	ISO 178
Izod Impact, Notched	0.420 J/cm	0.787 ft-lb/in	ASTM D256
Izod Impact, Unnotched	5.01 J/cm	9.39 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)	33.0 kJ/m ²	15.7 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	8.00 J	5.90 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
CTE, linear, Parallel to Flow	75.6 Åµm/m-Å°C	42.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	76.0 Åµm/m-Å°C	42.2 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
CTE, linear, Transverse to Flow	42.0 Åµm/m-Å°C	23.3 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	249 Å°C	480 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	252 Å°C	486 Å°F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	219 Å°C	426 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	233 Å°C	451 Å°F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648

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