

SABIC Innovative Plastics LNP THERMOCOMP UF0069S PPA

Category : Polymer , Thermoplastic , Polyphthalamide (PPA)

Material Notes:

LNP THERMOCOMP* UF0069S is a compound based on Polyphthalamide resin containing 30% 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-UF0069S-PPA.php

Physical Properties	Metric	English	Comments
Density	1.65 g/cc	0.0596 lb/in ³	ISO 1183
	1.655 g/cc	0.05979 lb/in ³	ASTM D792
Moisture Absorption	0.240 %	0.240 %	50% RH, 24 hrs; ASTM D570
	0.260 %	0.260 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0020 cm/cm	0.0020 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0022 cm/cm	0.0022 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0059 cm/cm	0.0059 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0060 cm/cm	0.0060 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	166 MPa	24100 psi	ISO 527
	181 MPa	26300 psi	ASTM D638
Elongation at Break	1.7 %	1.7 %	ISO 527
	1.9 %	1.9 %	ASTM D638
Tensile Modulus	12.07 GPa	1751 ksi	1 mm/min; ISO 527
	13.78 GPa	1999 ksi	50 mm/min; ASTM D638
Flexural Strength	258 MPa	37400 psi	ASTM D790
	264 MPa	38300 psi	ISO 178

Flexural Modulus Mechanical Properties	12.06 GPa Metric	1749 ksi English	ASTM D790 Comments
	12.32 GPa	1787 ksi	ISO 178
Izod Impact, Notched	0.900 J/cm	1.69 ft-lb/in	ASTM D256
Izod Impact, Unnotched	5.50 J/cm	10.3 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	9.00 kJ/m ²	4.28 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	44.0 kJ/m ²	20.9 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	2.00 J	1.48 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763

Thermal Properties	Metric	English	Comments
Flammability, UL94	V-0	V-0	UL 94
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	5VA	5VA	UL 94
	@Thickness 1.50 mm	@Thickness 0.0591 in	

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