

SABIC Innovative Plastics LNP THERMOCOMP RF0069XZ PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP THERMOCOMP* RF0069XZ is a compound based on Nylon 66 resin containing 30% Glass Fiber. Added features of this material include: Flame Retardant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-RF0069XZ-PA-66.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.69 g/cc	1.69 g/cc	ASTM D792
Density	1.68 g/cc	0.0607 lb/in ³	ISO 1183
	1.69 g/cc	0.0611 lb/in ³	ASTM D792
Moisture Absorption	0.360 %	0.360 %	50% RH, 24 hrs; ASTM D570
	0.540 %	0.540 %	23°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0020 - 0.0050 cm/cm @Time 86400 sec	0.0020 - 0.0050 in/in @Time 24.0 hour	ASTM D955
Linear Mold Shrinkage, Transverse	0.010 - 0.040 cm/cm @Time 86400 sec	0.010 - 0.040 in/in @Time 24.0 hour	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	155 MPa	22500 psi	5 mm/min; ISO 527
	160 MPa	23200 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	1.9 %	1.9 %	5 mm/min; ISO 527
	2.1 %	2.1 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	13.09 GPa	1899 ksi	1 mm/min; ISO 527
	13.36 GPa	1938 ksi	50 mm/min; ASTM D638
Flexural Strength	237 MPa	34400 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	11.5 GPa	1670 ksi	1.3 mm/min, 50 mm span; ASTM D790
	11.95 GPa	1733 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.730 J/cm	1.37 ft-lb/in	ASTM D256

Izod Impact, Unnotched Mechanical Properties	7.29 J/cm Metric	13.7 ft-lb/in English	ASTM D4812 Comments
Izod Impact, Notched (ISO)	8.00 kJ/m ²	3.81 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	45.0 kJ/m ²	21.4 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	8.00 J @Temperature 23.0 °C	5.90 ft-lb @Temperature 73.4 °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	25.4 µm/m-°C @Temperature -30.0 - 30.0 °C	14.1 µin/in-°F @Temperature -22.0 - 86.0 °F	ASTM D696
CTE, linear, Transverse to Flow	49.7 µm/m-°C @Temperature -30.0 - 30.0 °C	27.6 µin/in-°F @Temperature -22.0 - 86.0 °F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	255 °C	491 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	254 °C @Thickness 3.20 mm	489 °F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	240 °C	464 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	241 °C @Thickness 3.20 mm	466 °F @Thickness 0.126 in	unannealed; ASTM D648
Flammability, UL94	V-0 @Thickness 1.00 mm	V-0 @Thickness 0.0394 in	UL 94

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China