

SABIC Innovative Plastics LNP Thermocomp RF0059 PA 66 (Asia Pacific)

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP STARFLAM* RF0059 is a compound based on Nylon 66 resin containing Flame Retardant, Glass Fiber. Added features of this material include: Flame Retardant. This data was supplied by SABIC-IP for the Asia Pacific region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Thermocomp-RF0059-PA-66-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	1.49 g/cc	0.0538 lb/in ³	ASTM D 792
Moisture Absorption at Equilibrium	0.80 % @Time 86400 sec	0.80 % @Time 24.0 hour	50% RH; ASTM D 570

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	124 MPa	18000 psi	ASTM D 638
Elongation at Break	1.6 %	1.6 %	ASTM D 638
Tensile Modulus	11.0 GPa	1600 ksi	50 mm/min; ASTM D 638
Flexural Strength	193 MPa	28000 psi	ASTM D 790
Flexural Modulus	10.27 GPa	1490 ksi	ASTM D 790
Izod Impact, Notched	0.480 J/cm @Temperature 23.0 Â°C	0.899 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Unnotched	2.34 J/cm @Temperature 23.0 Â°C	4.38 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812
Impact Test	5.00 J @Temperature 23.0 Â°C	3.69 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Energy @ peak; ASTM D 3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	29.7 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	16.5 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
Deflection Temperature at 0.46 MPa (66 psi)	260 Â°C @Thickness 3.20 mm	500 Â°F @Thickness 0.126 in	unannealed; ASTM D 648

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed, ASTM D 648
Flammability, UL94	V-0 @Thickness 1.70 mm	V-0 @Thickness 0.0669 in	UL 94 by SABIC-IP

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