

SABIC Innovative Plastics LNP Thermocomp RF00ASXP PA6.6 (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP* THERMOCOMP* RF00ASXP is a compound based on PA 66 resin containing Glass Fiber. Added features include: Heat Stabilized. This data was supplied by SABIC-IP for the Europe-Africa-Middle East region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Thermocomp-RF00ASXP-PA66-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.57 g/cc	0.0567 lb/in ³	ISO 1183
Water Absorption	0.70 % @Temperature 23.0 Â°C, Time 86400 sec	0.70 % @Temperature 73.4 Â°F, Time 24.0 hour	ISO 62-1
Linear Mold Shrinkage, Flow	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	SABIC Method

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	210 MPa	30500 psi	5 mm/min; ISO 527
Elongation at Break	2.4 %	2.4 %	5 mm/min; ISO 527
Tensile Modulus	15.4 GPa	2230 ksi	1 mm/min; ISO 527
Flexural Yield Strength	305 MPa	44200 psi	2 mm/min; ISO 178
Flexural Modulus	14.1 GPa	2050 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	15.0 kJ/m ² @Temperature 23.0 Â°C	7.14 ft-lb/in ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	80.0 kJ/m ² @Temperature 23.0 Â°C	38.1 ft-lb/in ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	26.0 Âµm/m-Â°C @Temperature 23.0 - 60.0 Â°C	14.4 Âµin/in-Â°F @Temperature 73.4 - 140 Â°F	ISO 11359-2
CTE, linear, Transverse to Flow	84.0 Âµm/m-Â°C	46.7 Âµin/in-Â°F	ISO 11359-2

Thermal Properties	Metric @Temperature 23.0 - 80.0 Â°C	English @Temperature 73.4 - 149 Â°F	Comments
Deflection Temperature at 0.46 MPa (66 psi)	259 Â°C	498 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
Deflection Temperature at 1.8 MPa (264 psi)	246 Â°C	475 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
UL RTI, Electrical	130 Â°C	266 Â°F	UL 746B
UL RTI, Mechanical with Impact	125 Â°C	257 Â°F	UL 746B
UL RTI, Mechanical without Impact	125 Â°C	257 Â°F	UL 746B
Flammability, UL94	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	UL 94

Electrical Properties	Metric	English	Comments
Hot Wire Ignition, HWI	7.0 - 15 sec	7.0 - 15 sec	PLC code 4; UL 746A
High Amp Arc Ignition, HAI	>= 120 arcs	>= 120 arcs	surface, PLC code 0; UL 746A

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