

SABIC Innovative Plastics LNP Thermocomp PK0049 PA 6 (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Glass Bead Filled

Material Notes:

LNP* THERMOCOMP* PK0049 is a compound based on PA 6 resin containing Glass Bead, Flame Retardant. Added features include; Flame Retardant. 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-PK0049-PA-6-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.54 g/cc	0.0556 lb/in ³	ISO 1183
Water Absorption	1.0 % @Temperature 23.0 °C, Time 86400 sec	1.0 % @Temperature 73.4 °F, Time 24.0 hour	ISO 62-1
Linear Mold Shrinkage, Flow	0.010 cm/cm	0.010 in/in	SABIC Method

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	64.0 MPa	9280 psi	5 mm/min; ISO 527
Elongation at Break	1.9 %	1.9 %	5 mm/min; ISO 527
	2.8 %	2.8 %	Flexural Strain, 2 mm/min; ISO 178
Tensile Modulus	5.80 GPa	841 ksi	1 mm/min; ISO 527
Flexural Strength	103 MPa	14900 psi	2 mm/min; ISO 178
Flexural Yield Strength	103 MPa	14900 psi	2 mm/min; ISO 178
Flexural Modulus	5.20 GPa	754 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	4.00 kJ/m ² @Temperature 23.0 °C	1.90 ft-lb/in ² @Temperature 73.4 °F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	20.0 kJ/m ² @Temperature 23.0 °C	9.52 ft-lb/in ² @Temperature 73.4 °F	80*10*4; ISO 180/1U

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	53.0 Âµm/m-Â°C @Temperature 23.0 -	29.4 Âµin/in-Â°F @Temperature 73.4 -	ISO 11359-2

Thermal Properties	60.0 Â°C Metric	140 Â°F English	Comments
CTE, linear, Transverse to Flow	94.0 Âµm/m-Â°C @Temperature 23.0 - 60.0 Â°C	52.2 Âµin/in-Â°F @Temperature 73.4 - 140 Â°F	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	179 Â°C	354 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
Deflection Temperature at 1.8 MPa (264 psi)	102 Â°C	216 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
Flammability, UL94	V-0 @Thickness 1.60 mm	V-0 @Thickness 0.0630 in	UL 94 by SABIC-IP

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