

SABIC Innovative Plastics LNP Thermocomp MFK42AS PP (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

LNP* THERMOCOMP* MFK42AS is a compound based on PP resin containing Glass Fiber, Mineral. 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-MFK42AS-PP-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in ³	ISO 1183
Water Absorption	0.020 % @Temperature 23.0 Â°C, Time 86400 sec	0.020 % @Temperature 73.4 Â°F, Time 24.0 hour	ISO 62-1
Linear Mold Shrinkage, Flow	0.0050 cm/cm	0.0050 in/in	SABIC Method

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	45.0 MPa	6530 psi	5 mm/min; ISO 527
Tensile Strength, Yield	47.0 MPa	6820 psi	5 mm/min; ISO 527
Elongation at Break	5.4 %	5.4 %	Flexural Strain, 2 mm/min; ISO 178
Elongation at Yield	2.3 %	2.3 %	5 mm/min; ISO 527
Tensile Modulus	5.00 GPa	725 ksi	1 mm/min; ISO 527
Flexural Strength	37.0 MPa	5370 psi	2 mm/min; ISO 178
Flexural Yield Strength	74.0 MPa	10700 psi	2 mm/min; ISO 178
Flexural Modulus	4.80 GPa	696 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	5.00 kJ/m ² @Temperature 23.0 Â°C	2.38 ft-lb/in ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (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 180/1U

Thermal Properties	Metric	English	Comments
	51.0 Âµm/m-Â°C	28.3 Âµin/in-Â°F	

Thermal Properties	Metric	English	Comments
Thermal Coefficient to Flow	@ Temperature 23.0 - 60.0 Â°C	@ Temperature 73.4 - 140 Â°F	ISO 11359-2
CTE, linear, Transverse to Flow	116 Âµm/m-Â°C @Temperature 23.0 - 60.0 Â°C	64.4 Âµin/in-Â°F @Temperature 73.4 - 140 Â°F	ISO 11359-2
Deflection Temperature at 1.8 MPa (264 psi)	99.0 Â°C	210 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af

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