

SABIC Innovative Plastics LNP Thermocomp MK001AS PP (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

LNP* THERMOCOMP* MK001AS is a compound based on Polypropylene resin containing Mineral. 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-MK001AS-PP-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	0.960 g/cc	0.0347 lb/in ³	ISO 1183
Water Absorption	0.070 % @Temperature 23.0 °C, Time 86400 sec	0.070 % @Temperature 73.4 °F, Time 24.0 hour	ISO 62-1
Linear Mold Shrinkage, Flow	0.020 cm/cm	0.020 in/in	SABIC Method

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	32.0 MPa	4640 psi	50 mm/min; ISO 527
Elongation at Break	34 %	34 %	50 mm/min; ISO 527
Elongation at Yield	5.2 %	5.2 %	50 mm/min; ISO 527
Tensile Modulus	1.60 GPa	232 ksi	1 mm/min; ISO 527
Flexural Yield Strength	41.0 MPa	5950 psi	2 mm/min; ISO 178
Flexural Modulus	1.70 GPa	247 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	13.0 kJ/m ² @Temperature 23.0 °C	6.19 ft-lb/in ² @Temperature 73.4 °F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	70.0 kJ/m ² @Temperature 23.0 °C	33.3 ft-lb/in ² @Temperature 73.4 °F	80*10*4; ISO 180/1U

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	140 Åµm/m-Å°C @Temperature 23.0 - 60.0 Å°C	77.8 Åµin/in-Å°F @Temperature 73.4 - 140 Å°F	ISO 11359-2

Thermal Properties <i>CTE, linear, Transverse to Flow</i>	145 Åum/m-Å°C Metric	80.6 Åuin/in-Å°F English	Comments ISO 11359-2
	@Temperature 23.0 - 60.0 Å°C	@Temperature 73.4 - 140 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	108 Å°C	226 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
Deflection Temperature at 1.8 MPa (264 psi)	44.0 Å°C	111 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af

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