

SABIC Innovative Plastics LNP Thermocomp MX05039 PP (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

LNP* THERMOCOMP* MX05039 is a compound based on Polypropylene resin containing Mineral, colorant. Added features include : Heat-Stabilized, UV - 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-MX05039-PP-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/in ³	ISO 1183
Water Absorption	0.030 % @Temperature 23.0 °C, Time 86400 sec	0.030 % @Temperature 73.4 °F, Time 24.0 hour	ISO 62-1
Linear Mold Shrinkage, Flow	0.011 cm/cm	0.011 in/in	SABIC Method

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	18.0 MPa	2610 psi	50 mm/min; ISO 527
Tensile Strength, Yield	22.0 MPa	3190 psi	50 mm/min; ISO 527
Elongation at Yield	3.9 %	3.9 %	50 mm/min; ISO 527
Tensile Modulus	1.90 GPa	276 ksi	1 mm/min; ISO 527
Flexural Yield Strength	36.0 MPa	5220 psi	2 mm/min; ISO 178
Flexural Modulus	1.90 GPa	276 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	5.00 kJ/m ² @Temperature 23.0 °C	2.38 ft-lb/in ² @Temperature 73.4 °F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	50.0 kJ/m ² @Temperature 23.0 °C	23.8 ft-lb/in ² @Temperature 73.4 °F	80*10*4; ISO 180/1U

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	105 Âµm/m-Â°C @Temperature 23.0 - 60.0 Â°C	58.3 Âµin/in-Â°F @Temperature 73.4 - 140 Â°F	ISO 11359-2

Thermal Properties CTE, linear, Transverse to Flow	139 $\mu\text{m/m}\cdot\text{Å}^\circ\text{C}$ Metric	77.2 $\mu\text{in/in}\cdot\text{Å}^\circ\text{F}$ English	Comments ISO 11359-2
	@Temperature 23.0 - 60.0 $\text{Å}^\circ\text{C}$	@Temperature 73.4 - 140 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	99.0 $\text{Å}^\circ\text{C}$	210 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Bf
Deflection Temperature at 1.8 MPa (264 psi)	63.0 $\text{Å}^\circ\text{C}$	145 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Af

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