

SABIC Innovative Plastics LNP Thermocomp MX88073 PP

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

LNP* Thermocomp* MX88073 is a compound based on Polypropylene resin containing Glass Fiber. This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Thermocomp-MX88073-PP.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in ³	ISO 1183
	1.15 g/cc	0.0415 lb/in ³	ASTM D 792
Linear Mold Shrinkage, Flow	0.0090 cm/cm	0.0090 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
	0.0092 cm/cm	0.0092 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.011 cm/cm	0.011 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
	0.011 cm/cm	0.011 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	52.0 MPa	7540 psi	ISO 527
	53.0 MPa	7690 psi	ASTM D 638
Tensile Strength, Yield	52.0 MPa	7540 psi	ISO 527
	54.0 MPa	7830 psi	ASTM D 638
Elongation at Break	2.8 %	2.8 %	ASTM D 638
	3.0 %	3.0 %	ISO 527
Elongation at Yield	2.6 %	2.6 %	ASTM D 638
	2.7 %	2.7 %	ISO 527
Tensile Modulus	5.83 GPa	846 ksi	1 mm/min; ISO 527
	6.756 GPa	979.9 ksi	50 mm/min; ASTM D 638

Flexural Strength Mechanical Properties	82.0 MPa Metric	11900 psi English	ASTM D 790 Comments
	85.0 MPa	12300 psi	ISO 178
Flexural Modulus	5.30 GPa	769 ksi	ASTM D 790
	6.00 GPa	870 ksi	ISO 178
Izod Impact, Notched	1.06 J/cm @Temperature 23.0 Â°C	1.99 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Unnotched	4.27 J/cm @Temperature 23.0 Â°C	8.00 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812
Izod Impact, Notched (ISO)	10.0 kJ/mÂ² @Temperature 23.0 Â°C	4.76 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	26.0 kJ/mÂ² @Temperature 23.0 Â°C	12.4 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U
Impact Test	5.00 J	3.69 ft-lb	Multiaxial Impact; ISO 6603
	11.0 J @Temperature 23.0 Â°C	8.11 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Energy @ peak; ASTM D 3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	84.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	46.7 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
	84.6 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	47.0 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
CTE, linear, Transverse to Flow	43.2 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	24.0 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
	44.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	24.4 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	153 Â°C	307 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf

Thermal Properties	156 Â°C Metric	313 Â°F English	Comments
	@Thickness 3.20 mm	@Thickness 0.126 in	ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	127 Â°C	261 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	132 Â°C	270 Â°F	unannealed; ASTM D 648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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