

SABIC Innovative Plastics LNP THERMOCOMP MF002AS PP

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

LNP THERMOCOMP* MF002AS is a compound based on Polypropylene resin containing 10% Glass Fiber. Added features of this material include: Heat Stabilized.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-MF002AS-PP.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.960 g/cc	0.960 g/cc	ASTM D792
Density	0.960 g/cc	0.0347 lb/in ³	ASTM D792
Moisture Absorption	0.0200 %	0.0200 %	50% RH, 24 hrs; ASTM D570
	0.0600 %	0.0600 %	23°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	>= 0.020 cm/cm @Time 86400 sec	>= 0.020 in/in @Time 24.0 hour	ASTM D955
Linear Mold Shrinkage, Transverse	0.010 - 0.030 cm/cm @Time 86400 sec	0.010 - 0.030 in/in @Time 24.0 hour	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	34.0 MPa	4930 psi	Type I, 5 mm/min; ASTM D638
	35.0 MPa	5080 psi	5 mm/min; ISO 527
	45.0 MPa	6530 psi	ASTM D638
Tensile Strength, Yield	41.0 MPa	5950 psi	5 mm/min; ISO 527
	43.0 MPa	6240 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	3.7 %	3.7 %	ASTM D638
	4.9 %	4.9 %	5 mm/min; ISO 527
	5.4 %	5.4 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	3.4 %	3.4 %	Type I, 5 mm/min; ASTM D638
	3.4 %	3.4 %	5 mm/min; ISO 527
Tensile Modulus	2.84 GPa	412 ksi	1 mm/min; ISO 527
	3.25 GPa	471 ksi	50 mm/min; ASTM D638

Mechanical Properties	Metric ¹	English ¹	Comments
	68.0 MPa	9860 psi	ASTM D790
Flexural Yield Strength	66.0 MPa	9570 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	2.37 GPa	344 ksi	2 mm/min; ISO 178
	2.60 GPa	377 ksi	1.3 mm/min, 50 mm span; ASTM D790
	2.84 GPa	412 ksi	ASTM D790
Izod Impact, Notched	0.430 J/cm	0.806 ft-lb/in	ASTM D256
Izod Impact, Unnotched	3.81 J/cm	7.14 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	4.00 kJ/m ²	1.90 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	24.0 kJ/m ²	11.4 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	8.00 J @Temperature 23.0 Â°C	5.90 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	76.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	42.2 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	109 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	60.6 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	122 Â°C	252 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	146 Â°C @Thickness 3.20 mm	295 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	74.0 Â°C	165 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	105 Â°C @Thickness 3.20 mm	221 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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