

SABIC Innovative Plastics LNP THERMOCOMP MF003AS PP

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

LNP* THERMOCOMP* MF003AS is a compound based on Polypropylene containing 15% Glass Fiber. Characteristics of this grade are: Heat Stabilized.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-MF003AS-PP.php

Physical Properties	Metric	English	Comments
Density	1.01 g/cc	0.0365 lb/in ³	ASTM D792
	1.01 g/cc	0.0365 lb/in ³	ISO 1183
Moisture Absorption	0.0500 %	0.0500 %	50% RH, 24 hrs; ASTM D570
	0.0500 %	0.0500 %	23 [°] C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.011 - 0.013 cm/cm	0.011 - 0.013 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.010 - 0.030 cm/cm	0.010 - 0.030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	57.0 MPa	8270 psi	5 mm/min; ISO 527
	59.0 MPa	8560 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	19.0 MPa	2760 psi	5 mm/min; ISO 527
	29.0 MPa	4210 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	1.5 %	1.5 %	Type I, 5 mm/min; ASTM D638
	2.4 %	2.4 %	5 mm/min; ISO 527
	78.2 %	78.2 %	Flexural Strain, break, 2 mm/min; ISO 178
Tensile Modulus	4.75 GPa	689 ksi	1 mm/min; ISO 527
	8.61 GPa	1250 ksi	50 mm/min; ASTM D638
Flexural Strength	57.0 MPa	8270 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	1.78 GPa	258 ksi	1.3 mm/min, 50 mm span; ASTM D790

Mechanical Properties	3.93 GPa Metric	570 ksi English	2 mm/min ISO 178 Comments
Izod Impact, Notched	0.580 J/cm	1.09 ft-lb/in	ASTM D256
Izod Impact, Unnotched	3.58 J/cm	6.71 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	5.00 kJ/mÂ²	2.38 ft-lb/inÂ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	28.0 kJ/mÂ²	13.3 ft-lb/inÂ²	80*10*4; ISO 180/1U

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	52.0 Âµm/m-Â°C	28.9 Âµin/in-Â°F	ASTM D696
	@Temperature -30.0 - 30.0 Â°C	@Temperature -22.0 - 86.0 Â°F	
CTE, linear, Transverse to Flow	83.0 Âµm/m-Â°C	46.1 Âµin/in-Â°F	ASTM D696
	@Temperature -30.0 - 30.0 Â°C	@Temperature -22.0 - 86.0 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	155 Â°C	311 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	155 Â°C	311 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	127 Â°C	261 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	134 Â°C	273 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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