

SABIC Innovative Plastics LNP THERMOCOMP MF006AL PP

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

LNP* THERMOCOMP* MF006AL is a compound based on Polypropylene resin containing 30% Glass Fiber. Characteristics of this grade are:
Low Extractable.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-MF006AL-PP.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in ³	ASTM D792
	1.14 g/cc	0.0412 lb/in ³	ISO 1183
Moisture Absorption	0.0300 %	0.0300 %	50% RH, 24 hrs; ASTM D570
	0.0400 %	0.0400 %	23°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0060 - 0.0080 cm/cm	0.0060 - 0.0080 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	35.0 MPa	5080 psi	Type I, 5 mm/min; ASTM D638
	43.0 MPa	6240 psi	5 mm/min; ISO 527
Tensile Strength, Yield	46.0 MPa	6670 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	0.90 %	0.90 %	Type I, 5 mm/min; ASTM D638
	0.90 %	0.90 %	5 mm/min; ISO 527
Elongation at Yield	0.90 %	0.90 %	Type I, 5 mm/min; ASTM D638
	0.90 %	0.90 %	5 mm/min; ISO 527
Tensile Modulus	7.04 GPa	1020 ksi	1 mm/min; ISO 527
	8.24 GPa	1200 ksi	50 mm/min; ASTM D638
Flexural Strength	59.0 MPa	8560 psi	ISO 178
Flexural Yield Strength	62.0 MPa	8990 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	6.19 GPa	898 ksi	2 mm/min; ISO 178

Mechanical Properties	Metric	English	Comments
	6.29 GPa	91.2 ksi	1.4 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.390 J/cm	0.731 ft-lb/in	ASTM D256
Izod Impact, Unnotched	1.39 J/cm	2.60 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)	8.00 kJ/m ²	3.81 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	9.00 J @Temperature 23.0 Â°C	6.64 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	33.5 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	18.6 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	97.7 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	54.3 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	134 Â°C	273 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	141 Â°C @Thickness 3.20 mm	286 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	100 Â°C	212 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	106 Â°C @Thickness 3.20 mm	223 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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