

SABIC Innovative Plastics LNP THERMOCOMP MFB22S PP

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

LNP* THERMOCOMP* MFB22S is a compound based on Polypropylene containing 10% Glass Fiber, 10% Glass Bead. Added feature of this grade is: Heat Stabilized.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-MFB22S-PP.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.04 g/cc	1.04 g/cc	ASTM D792
Density	1.035 g/cc	0.03739 lb/in ³	ASTM D792
Moisture Absorption	0.0300 %	0.0300 %	50% RH, 24 hrs; ASTM D570
	0.0400 %	0.0400 %	23Â°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	45.0 MPa	6530 psi	Type I, 5 mm/min; ASTM D638
	45.0 MPa	6530 psi	5 mm/min; ISO 527
Tensile Strength, Yield	47.0 MPa	6820 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	3.6 %	3.6 %	5 mm/min; ISO 527
	4.1 %	4.1 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	3.2 %	3.2 %	Type I, 5 mm/min; ASTM D638
	3.2 %	3.2 %	5 mm/min; ISO 527
Tensile Modulus	3.25 GPa	471 ksi	1 mm/min; ISO 527
	3.66 GPa	531 ksi	5 mm/min; ASTM D638
Flexural Strength	70.0 MPa	10200 psi	ISO 178
Flexural Yield Strength	73.0 MPa	10600 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	2.77 GPa	402 ksi	2 mm/min; ISO 178

Mechanical Properties	Metric	English	Comments
	2.63 GPa	416 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.520 J/cm	0.974 ft-lb/in	ASTM D256
Izod Impact, Unnotched	4.06 J/cm	7.61 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)	25.0 kJ/m ²	11.9 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	7.00 J @Temperature 23.0 Â°C	5.16 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
Deflection Temperature at 0.46 MPa (66 psi)	148 Â°C	298 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	156 Â°C @Thickness 3.20 mm	313 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	103 Â°C	217 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	135 Â°C @Thickness 3.20 mm	275 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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