

## SABIC Innovative Plastics LNP THERMOCOMP MC002 PP

Category : Polymer , Thermoplastic , Polypropylene (PP)

### Material Notes:

LNP\* THERMOCOMP\* MC002 is a compound based on Polypropylene resin containing 10% Carbon Fiber. Added feature of this material is: Electrically Conductive.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-THERMOCOMP-MC002-PP.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-MC002-PP.php)

Physical Properties	Metric	English	Comments
Specific Gravity	0.950 g/cc	0.950 g/cc	ASTM D792
Density	0.950 g/cc	0.0343 lb/in <sup>3</sup>	ASTM D792
Moisture Absorption	0.0400 %	0.0400 %	50% RH, 24 hrs; ASTM D570
	0.0400 %	0.0400 %	23 <sup>o</sup> C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0070 - 0.010 cm/cm @Time 86400 sec	0.0070 - 0.010 in/in @Time 24.0 hour	ASTM D955
Linear Mold Shrinkage, Transverse	0.0070 - 0.010 cm/cm @Time 86400 sec	0.0070 - 0.010 in/in @Time 24.0 hour	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	35.0 MPa	5080 psi	5 mm/min; ISO 527
	36.0 MPa	5220 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	24.0 MPa	3480 psi	5 mm/min; ISO 527
	35.0 MPa	5080 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	2.4 %	2.4 %	Type I, 5 mm/min; ASTM D638
	3.7 %	3.7 %	50 mm/min; ISO 527
Tensile Modulus	6.29 GPa	912 ksi	1 mm/min; ISO 527
	11.17 GPa	1620 ksi	50 mm/min; ASTM D638
Flexural Strength	55.0 MPa	7980 psi	1.3 mm/min, 50 mm span; ASTM D790
	77.0 MPa	11200 psi	ISO 178
Flexural Modulus	4.70 GPa	682 ksi	1.3 mm/min, 50 mm span; ASTM D790

Mechanical Properties	9.59 GPa Metric	1390 ksi English	2 mm/min: ISO 178 Comments
Izod Impact, Notched	0.480 J/cm	0.899 ft-lb/in	ASTM D256
Izod Impact, Unnotched	2.99 J/cm	5.60 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	4.00 kJ/m <sup>2</sup>	1.90 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	25.0 kJ/m <sup>2</sup>	11.9 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U
Dart Drop, Total Energy	11.0 J @Temperature 23.0 Â°C	8.11 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	5.00 J	3.69 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	139 Â°C	282 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	145 Â°C @Thickness 3.20 mm	293 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	116 Â°C	241 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	120 Â°C @Thickness 3.20 mm	248 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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