

SABIC Innovative Plastics LNP THERMOCOMP MX89510 PP

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

LNP* THERMOCOMP* MX89510 is a compound based on Polypropylene resin containing Proprietary Filler(s).

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-MX89510-PP.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.02 g/cc	1.02 g/cc	ASTM D792
Density	1.01 g/cc	0.0365 lb/in ³	ASTM D792
Moisture Absorption	0.0200 %	0.0200 %	50% RH, 24 hrs; ASTM D570
	0.0200 %	0.0200 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0080 - 0.020 cm/cm	0.0080 - 0.020 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0090 - 0.030 cm/cm	0.0090 - 0.030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	48.0 MPa	6960 psi	5 mm/min; ISO 527
	52.0 MPa	7540 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	50.0 MPa	7250 psi	5 mm/min; ISO 527
	52.0 MPa	7540 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	3.4 %	3.4 %	Type I, 5 mm/min; ASTM D638
	3.4 %	3.4 %	5 mm/min; ISO 527
Elongation at Yield	2.9 %	2.9 %	5 mm/min; ISO 527
	3.0 %	3.0 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	3.54 GPa	513 ksi	1 mm/min; ISO 527
	3.82 GPa	554 ksi	50 mm/min; ASTM D638
Flexural Strength	76.0 MPa	11000 psi	ISO 178
Flexural Yield Strength	80.0 MPa	11600 psi	1.3 mm/min, 50 mm span; ASTM D790

Flexural Modulus Mechanical Properties	2.80 GPa Metric	406 ksi English	1.3 mm/min, 50 mm span; ASTM D790 Comments
	2.95 GPa	428 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.210 J/cm	0.393 ft-lb/in	ASTM D256
Izod Impact, Unnotched	3.68 J/cm	6.89 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	2.00 kJ/m ²	0.952 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	22.0 kJ/m ²	10.5 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	4.00 J @Temperature 23.0 Â°C	2.95 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	1.00 J	0.738 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	43.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	23.9 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	120 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	66.7 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	153 Â°C	307 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)	119 Â°C	246 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	131 Â°C @Thickness 3.20 mm	268 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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