

## SABIC Innovative Plastics LNP THERMOCOMP MX95318 PP

Category : Polymer , Thermoplastic , Polypropylene (PP)

### Material Notes:

LNP\* THERMOCOMP\* MX95318 is a compound based on Polypropylene containing Proprietary Filler(s).

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-THERMOCOMP-MX95318-PP.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-MX95318-PP.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.03 g/cc	1.03 g/cc	ASTM D792
Density	1.03 g/cc	0.0372 lb/in <sup>3</sup>	ASTM D792
Moisture Absorption	0.0100 %	0.0100 %	23 <sup>o</sup> 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	5.00 MPa	725 psi	5 mm/min; ISO 527
	20.0 MPa	2900 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	29.0 MPa	4210 psi	5 mm/min; ISO 527
	30.0 MPa	4350 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	29 %	29 %	Type I, 5 mm/min; ASTM D638
	40 %	40 %	5 mm/min; ISO 527
Elongation at Yield	7.0 %	7.0 %	5 mm/min; ISO 527
	7.5 %	7.5 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	1.75 GPa	254 ksi	1 mm/min; ISO 527
	2.08 GPa	302 ksi	50 mm/min; ASTM D638
Flexural Strength	37.0 MPa	5370 psi	ISO 178
Flexural Modulus	1.65 GPa	239 ksi	1.3 mm/min, 50 mm span; ASTM D790
	1.69 GPa	245 ksi	2 mm/min; ISO 178

Izod Impact, Notched Mechanical Properties	0.220 J/cm Metric	0.412 ft-lb/in English	ASTM D256 Comments
Izod Impact, Unnotched	4.25 J/cm	7.96 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	3.00 kJ/m <sup>2</sup>	1.43 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	26.0 kJ/m <sup>2</sup>	12.4 ft-lb/in <sup>2</sup>	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	1.00 J	0.738 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	79.0 Âµm/m-Â°C	43.9 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	84.0 Âµm/m-Â°C	46.7 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)	98.0 Â°C	208 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf  unannealed; ASTM D648
	129 Â°C @Thickness 3.20 mm	264 Â°F @Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	61.0 Â°C	142 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af  unannealed; ASTM D648
	78.0 Â°C @Thickness 3.20 mm	172 Â°F @Thickness 0.126 in	

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