

## SABIC Innovative Plastics LNP Thermocomp MF0069S PP

Category : Polymer , Thermoplastic , Polypropylene (PP)

### Material Notes:

LNP\* Thermocomp\* MF0069S is a compound based on Polypropylene resin containing Glass Fiber, Flame Retardant. Added features of this material include: Chemically Coupled, Flame Retardant, Heat Stabilized. This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-Thermocomp-MF0069S-PP.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Thermocomp-MF0069S-PP.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.46 g/cc	1.46 g/cc	ASTM D 792
Density	1.46 g/cc	0.0527 lb/in <sup>3</sup>	ASTM D 792
Moisture Absorption at Equilibrium	0.030 %	0.030 %	23°C / 50% RH; ISO 62
	0.020 % @Time 86400 sec	0.020 % @Time 24.0 hour	50% RH; ASTM D 570
Linear Mold Shrinkage, Flow	0.0030 - 0.0060 cm/cm	0.0030 - 0.0060 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0080 - 0.011 cm/cm	0.0080 - 0.011 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	75.0 MPa	10900 psi	5 mm/min; ISO 527
	76.0 MPa	11000 psi	Type I, 5 mm/min; ASTM D 638
Elongation at Break	2.2 %	2.2 %	Type I, 5 mm/min; ASTM D 638
	2.3 %	2.3 %	5 mm/min; ISO 527
Elongation at Yield	2.1 %	2.1 %	5 mm/min; ISO 527
	2.1 %	2.1 %	Type I, 5 mm/min; ASTM D 638
Tensile Modulus	8.35 GPa	1210 ksi	1 mm/min; ISO 527
	9.05 GPa	1310 ksi	50 mm/min; ASTM D 638
Flexural Strength	118 MPa	17100 psi	1.3 mm/min, 50 mm span; ASTM D 790
	124 MPa	18000 psi	ISO 178
	125 MPa	18100 psi	1.3 mm/min, 50 mm span; ASTM D

Flexural Yield Strength Mechanical Properties	Metric	English	790 Comments
Flexural Modulus	7.24 GPa	1050 ksi	1.3 mm/min, 50 mm span; ASTM D 790
	7.74 GPa	1120 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.790 J/cm	1.48 ft-lb/in	ASTM D 256
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Unnotched	4.45 J/cm	8.34 ft-lb/in	ASTM D 4812
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Notched (ISO)	7.00 kJ/m <sup>2</sup>	3.33 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Unnotched (ISO)	28.0 kJ/m <sup>2</sup>	13.3 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603
	6.00 J	4.43 ft-lb	
	@Temperature 23.0 °C	@Temperature 73.4 °F	Instrumented Impact Total Energy; ASTM D 3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	35.0 µm/m-°C	19.4 µin/in-°F	ASTM D 696
	@Temperature -30.0 - 30.0 °C	@Temperature -22.0 - 86.0 °F	
CTE, linear, Transverse to Flow	68.0 µm/m-°C	37.8 µin/in-°F	ASTM D 696
	@Temperature -30.0 - 30.0 °C	@Temperature -22.0 - 86.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	151 °C	304 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	155 °C	311 °F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	136 °C	277 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	142 °C	288 °F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D 648
Flammability, UL94	V-0	V-0	UL 94 by SABIC-IP
	@Thickness 1.50 mm	@Thickness 0.0591 in	

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