

## SABIC Innovative Plastics LNP Thermocomp SF00A PA12 (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Nylon , Nylon 12

### Material Notes:

Glass filled Nylon 12 This data was supplied by SABIC-IP for the Europe-Africa-Middle East region.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-Thermocomp-SF00A-PA12-Europe-Africa-Middle-East.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Thermocomp-SF00A-PA12-Europe-Africa-Middle-East.php)

Physical Properties	Metric	English	Comments
Density	1.48 g/cc	0.0535 lb/in <sup>3</sup>	ASTM D 792
	1.48 g/cc	0.0535 lb/in <sup>3</sup>	ISO 1183
Linear Mold Shrinkage, Flow	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0080 - 0.010 cm/cm	0.0080 - 0.010 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	113 MPa	16400 psi	5 mm/min; ISO 527
	121 MPa	17500 psi	Type I, 5 mm/min; ASTM D 638
Tensile Strength, Yield	113 MPa	16400 psi	5 mm/min; ISO 527
	121 MPa	17500 psi	Type I, 5 mm/min; ASTM D 638
Elongation at Break	1.5 %	1.5 %	5 mm/min; ISO 527
	1.7 %	1.7 %	Type I, 5 mm/min; ASTM D 638
Elongation at Yield	1.5 %	1.5 %	5 mm/min; ISO 527
	1.7 %	1.7 %	Type I, 5 mm/min; ASTM D 638
Tensile Modulus	12.28 GPa	1781 ksi	1 mm/min; ISO 527
	12.8 GPa	1860 ksi	50 mm/min; ASTM D 638
Flexural Strength	143 MPa	20700 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Yield Strength	148 MPa	21500 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Modulus	0.0100 GPa	1.45 ksi	2 mm/min; ISO 178

Mechanical Properties	8.93 GPa Metric	1300 ksi English	1.3 mm/min, 50 mm span; ASTM D 190 Comments
Izod Impact, Notched	0.970 J/cm @Temperature 23.0 Â°C	1.82 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Unnotched	5.77 J/cm @Temperature 23.0 Â°C	10.8 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812
Izod Impact, Notched (ISO)	1.00 kJ/mÂ² @Temperature 23.0 Â°C	0.476 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	30.0 kJ/mÂ² @Temperature 23.0 Â°C	14.3 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U
Impact Test	16.0 J	11.8 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	176 Â°C @Thickness 3.20 mm	349 Â°F @Thickness 0.126 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	176 Â°C	349 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	166 Â°C @Thickness 3.20 mm	331 Â°F @Thickness 0.126 in	unannealed; ASTM D 648

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