

SABIC Innovative Plastics LNP THERMOCOMP V1000SU PA

Category : Polymer , Thermoplastic , Nylon

Material Notes:

LNP* Thermotuf* V1000SU is a compound based on Nylon resin. Added features of this material include: Heat Stabilized, UV Stabilized.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-V1000SU-PA.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.07 g/cc	1.07 g/cc	ASTM D792
Density	1.065 g/cc	0.03848 lb/in ³	ASTM D792
	1.08 g/cc	0.0390 lb/in ³	ISO 1183
Moisture Absorption	0.600 %	0.600 %	50% RH, 24 hrs; ASTM D570
	1.00 %	1.00 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.021 - 0.023 cm/cm	0.021 - 0.023 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.022 cm/cm	0.022 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.025 - 0.027 cm/cm	0.025 - 0.027 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.026 cm/cm	0.026 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	39.0 MPa	5660 psi	Type I, 5 mm/min; ASTM D638
	41.0 MPa	5950 psi	5 mm/min; ISO 527
Tensile Strength, Yield	39.0 MPa	5660 psi	Type I, 5 mm/min; ASTM D638
	41.0 MPa	5950 psi	5 mm/min; ISO 527
Elongation at Break	84.5 %	84.5 %	Type I, 5 mm/min; ASTM D638
	165 %	165 %	5 mm/min; ISO 527
Elongation at Yield	57.2 %	57.2 %	Type I, 5 mm/min; ASTM D638
	146.7 %	146.7 %	5 mm/min; ISO 527

Mechanical Properties	Metric	English	Comments
	1.71 GPa	248 ksi	5 mm/min; ASTM D638
Flexural Strength	53.0 MPa	7690 psi	ISO 178
	55.0 MPa	7980 psi	ASTM D790
Flexural Modulus	1.70 GPa	247 ksi	ISO 178
	2.06 GPa	299 ksi	ASTM D790
Izod Impact, Unnotched	NB	NB	ASTM D4812
Izod Impact, Unnotched (ISO)	NB	NB	80*10*4; ISO 180/1U
Dart Drop, Total Energy	49.0 J @Temperature 23.0 Â°C	36.1 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	49.0 J	36.1 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	134 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	74.4 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
	135 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	75.0 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
CTE, linear, Transverse to Flow	133 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	73.9 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
	134 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	74.4 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	150 Â°C	302 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	192 Â°C @Thickness 3.20 mm	378 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	147 Â°C	297 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/ Af
	193 Â°C @Thickness 3.20 mm	379 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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