

SABIC Innovative Plastics LNP Thermocomp RF006PS PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP* Thermocomp* RF-1006 EP HS is based on Nylon 6/6 containing Glass Fiber. Characteristics of this grade include Exceptional Processing and Heat Stabilizer. 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-RF006PS-PA-66.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.43 g/cc	1.43 g/cc	ASTM D 792
Density	1.43 g/cc	0.0517 lb/in ³	ASTM D 792
Moisture Absorption at Equilibrium	1.3 %	1.3 %	23Â°C / 50% RH; ISO 62
	0.84 %	0.84 %	50% RH; ASTM D 570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0010 - 0.0040 cm/cm	0.0010 - 0.0040 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.010 - 0.030 cm/cm	0.010 - 0.030 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	159 MPa	23100 psi	5 mm/min; ISO 527
	163 MPa	23600 psi	Type I, 5 mm/min; ASTM D 638
Tensile Strength, Yield	159 MPa	23100 psi	5 mm/min; ISO 527
	163 MPa	23600 psi	Type I, 5 mm/min; ASTM D 638
Elongation at Break	2.8 %	2.8 %	Type I, 5 mm/min; ASTM D 638
	3.0 %	3.0 %	5 mm/min; ISO 527
Elongation at Yield	2.7 %	2.7 %	Type I, 5 mm/min; ASTM D 638
	2.9 %	2.9 %	5 mm/min; ISO 527
Tensile Modulus	10.52 GPa	1526 ksi	1 mm/min; ISO 527
	11.12 GPa	1613 ksi	50 mm/min; ASTM D 638
Flexural Strength	234 MPa	33900 psi	1.3 mm/min, 50 mm span; ASTM D 790

Mechanical Properties	Metric	English	Comments
Flexural Yield Strength	234 MPa	33900 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Modulus	8.66 GPa	1260 ksi	1.3 mm/min, 50 mm span; ASTM D 790
	8.78 GPa	1270 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.940 J/cm @Temperature 23.0 Â°C	1.76 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Unnotched	9.85 J/cm @Temperature 23.0 Â°C	18.5 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812
Izod Impact, Notched (ISO)	9.00 kJ/mÂ² @Temperature 23.0 Â°C	4.28 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	60.0 kJ/mÂ² @Temperature 23.0 Â°C	28.6 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	34.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	18.9 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D 696
CTE, linear, Transverse to Flow	84.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	46.7 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D 696
Deflection Temperature at 0.46 MPa (66 psi)	255 Â°C	491 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	256 Â°C @Thickness 3.20 mm	493 Â°F @Thickness 0.126 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	234 Â°C	453 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/ Af
	241 Â°C @Thickness 3.20 mm	466 Â°F @Thickness 0.126 in	unannealed; ASTM D 648

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