

SABIC Innovative Plastics LNP THERMOCOMP RF006EUC PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP* THERMOCOMP* RF006EUC is a compound based on Nylon 66 resin containing 30% Glass Fiber. Added features of this material include Easy Molding, UV Stabilized.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-RF006EUC-PA-66.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.40 g/cc	1.40 g/cc	ASTM D792
Density	1.40 g/cc	0.0506 lb/in ³	ASTM D792
Moisture Absorption	0.860 %	0.860 %	50% RH, 24 hrs; ASTM D570
	1.40 %	1.40 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.010 - 0.030 cm/cm	0.010 - 0.030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	135 MPa	19600 psi	Type I, 5 mm/min; ASTM D638
	137 MPa	19900 psi	5 mm/min; ISO 527
Tensile Strength, Yield	136 MPa	19700 psi	Type I, 5 mm/min; ASTM D638
	139 MPa	20200 psi	5 mm/min; ISO 527
Elongation at Break	2.2 %	2.2 %	Type I, 5 mm/min; ASTM D638
	2.4 %	2.4 %	5 mm/min; ISO 527
Elongation at Yield	2.1 %	2.1 %	Type I, 5 mm/min; ASTM D638
	2.2 %	2.2 %	5 mm/min; ISO 527
Tensile Modulus	9.79 GPa	1420 ksi	50 mm/min; ASTM D638
	9.84 GPa	1430 ksi	1 mm/min; ISO 527
Flexural Strength	80.0 MPa	11600 psi	1.3 mm/min, 50 mm span; ASTM D790
	207 MPa	30000 psi	ISO 178

Mechanical Properties	Metric 207 MPa	English 30000 psi	Comments 2 mm/min; ISO 178
Flexural Yield Strength	85.0 MPa	12300 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	8.20 GPa	1190 ksi	2 mm/min; ISO 178
	8.64 GPa	1250 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.610 J/cm	1.14 ft-lb/in	ASTM D256
Izod Impact, Unnotched	7.26 J/cm	13.6 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	6.00 kJ/m ²	2.86 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	43.0 kJ/m ²	20.5 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	8.00 J @Temperature 23.0 Â°C	5.90 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	36.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	20.0 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	79.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	43.9 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	248 Â°C	478 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	249 Â°C @Thickness 3.20 mm	480 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	226 Â°C	439 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	229 Â°C @Thickness 3.20 mm	444 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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