

SABIC Innovative Plastics LNP THERMOCOMP RF007ES PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP* THERMOCOMP* RF007ES is a compound based on Nylon 66 resin containing 35% Glass Fiber. Added features of this material include: Heat Stabilized, Easy Molding.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-RF007ES-PA-66.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.41 g/cc	1.41 g/cc	ASTM D792
Density	1.40 g/cc	0.0506 lb/in ³	ASTM D792
Moisture Absorption	0.840 %	0.840 %	50% RH, 24 hrs; ASTM D570
	1.20 %	1.20 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0090 - 0.020 cm/cm	0.0090 - 0.020 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	149 MPa	21600 psi	5 mm/min; ISO 527
	151 MPa	21900 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	149 MPa	21600 psi	5 mm/min; ISO 527
	152 MPa	22000 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	2.3 %	2.3 %	5 mm/min; ISO 527
	2.4 %	2.4 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	2.3 %	2.3 %	Type I, 5 mm/min; ASTM D638
	2.3 %	2.3 %	5 mm/min; ISO 527
Tensile Modulus	10.32 GPa	1497 ksi	1 mm/min; ISO 527
	10.68 GPa	1549 ksi	50 mm/min; ASTM D638
Flexural Strength	220 MPa	31900 psi	ISO 178
	226 MPa	32800 psi	1.3 mm/min, 50 mm span; ASTM D790

Mechanical Properties	Metric	English	Comments
Flexural Yield Strength	22.7 MPa	32900 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	9.05 GPa	1310 ksi	2 mm/min; ISO 178
	9.32 GPa	1350 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.620 J/cm	1.16 ft-lb/in	ASTM D256
Izod Impact, Unnotched	6.95 J/cm	13.0 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)	41.0 kJ/m ²	19.5 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	6.00 J @Temperature 23.0 Â°C	4.43 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	26.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	14.4 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)	252 Â°C	486 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	255 Â°C @Thickness 3.20 mm	491 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	228 Â°C	442 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	237 Â°C @Thickness 3.20 mm	459 Â°F @Thickness 0.126 in	unannealed; ASTM D648

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215, Fengxian District, Shanghai City, China