

SABIC Innovative Plastics LNP THERMOCOMP QF007 PA 6/10

Category : Polymer , Thermoplastic , Nylon , Nylon 610

Material Notes:

LNP* THERMOCOMP* QF007 is a compound based on Nylon 6/10 resin containing 35% Glass Fiber.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-QF007-PA-610.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.33 g/cc	1.33 g/cc	ASTM D792
Density	1.33 g/cc	0.0480 lb/in ³	ASTM D792
Moisture Absorption	0.200 %	0.200 %	50% RH, 24 hrs; ASTM D570
	0.370 %	0.370 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0010 - 0.0040 cm/cm	0.0010 - 0.0040 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	156 MPa	22600 psi	Type I, 5 mm/min; ASTM D638
	157 MPa	22800 psi	5 mm/min; ISO 527
	176 MPa	25500 psi	ASTM D638
Tensile Strength, Yield	156 MPa	22600 psi	Type I, 5 mm/min; ASTM D638
	157 MPa	22800 psi	5 mm/min; ISO 527
Elongation at Break	2.3 %	2.3 %	Type I, 5 mm/min; ASTM D638
	2.4 %	2.4 %	5 mm/min; ISO 527
Elongation at Yield	2.3 %	2.3 %	Type I, 5 mm/min; ASTM D638
	2.4 %	2.4 %	5 mm/min; ISO 527
Tensile Modulus	9.60 GPa	1390 ksi	1 mm/min; ISO 527
	9.97 GPa	1450 ksi	50 mm/min; ASTM D638
Flexural Strength	227 MPa	32900 psi	ISO 178
	238 MPa	34500 psi	1.3 mm/min, 50 mm span; ASTM

Mechanical Properties	Metric	English	^{D790} Comments
	268 MPa	38900 psi	ASTM D790
Flexural Yield Strength	239 MPa	34700 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	7.93 GPa	1150 ksi	2 mm/min; ISO 178
	8.32 GPa	1210 ksi	1.3 mm/min, 50 mm span; ASTM D790
	8.90 GPa	1290 ksi	ASTM D790
Izod Impact, Notched	1.24 J/cm	2.32 ft-lb/in	ASTM D256
Izod Impact, Unnotched	10.8 J/cm	20.2 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	11.0 kJ/m ²	5.23 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	65.0 kJ/m ²	30.9 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	10.0 J @Temperature 23.0 Â°C	7.38 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	4.00 J	2.95 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	35.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	19.4 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	114 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	63.3 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	219 Â°C	426 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	222 Â°C @Thickness 3.20 mm	432 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	203 Â°C	397 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	214 Â°C @Thickness 3.20 mm	417 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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