

## SABIC Innovative Plastics LNP Thermocomp QF002 PA6.10

Category : Polymer , Thermoplastic , Nylon , Nylon 610

### Material Notes:

LNP\* Thermocomp\* QF002 is a compound based on Nylon 6/10 containing Glass Fiber. 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-QF002-PA610.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Thermocomp-QF002-PA610.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.16 g/cc	1.16 g/cc	ASTM D 792
Density	1.15 g/cc	0.0415 lb/in <sup>3</sup>	ASTM D 792
Moisture Absorption at Equilibrium	0.35 %	0.35 %	23Â°C / 50% RH; ISO 62
	0.26 % @Time 86400 sec	0.26 % @Time 24.0 hour	50% RH; ASTM D 570
Linear Mold Shrinkage, Flow	0.0030 - 0.0060 cm/cm	0.0030 - 0.0060 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0060 - 0.0090 cm/cm	0.0060 - 0.0090 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	73.0 MPa	10600 psi	Type I, 5 mm/min; ASTM D 638
	76.0 MPa	11000 psi	5 mm/min; ISO 527
Tensile Strength, Yield	80.0 MPa	11600 psi	5 mm/min; ISO 527
Elongation at Break	1.8 %	1.8 %	Type I, 5 mm/min; ASTM D 638
	2.3 %	2.3 %	5 mm/min; ISO 527
Tensile Modulus	4.58 GPa	664 ksi	1 mm/min; ISO 527
	4.60 GPa	667 ksi	50 mm/min; ASTM D 638
Flexural Strength	121 MPa	17500 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Modulus	3.76 GPa	545 ksi	2 mm/min; ISO 178
	3.96 GPa	574 ksi	1.3 mm/min, 50 mm span; ASTM D 790
	0.360 J/cm	0.674 ft-lb/in	

Mechanical Properties	Metric	English	Comments
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Izod Impact, Unnotched	3.25 J/cm @Temperature 23.0 Â°C	6.09 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812
Izod Impact, Notched (ISO)	3.00 kJ/mÂ² @Temperature 23.0 Â°C	1.43 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	20.0 kJ/mÂ² @Temperature 23.0 Â°C	9.52 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U
Impact Test	1.00 J	0.738 ft-lb	Multiaxial Impact; ISO 6603
	4.00 J @Temperature 23.0 Â°C	2.95 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Total Energy; ASTM D 3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	54.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	30.0 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D 696
CTE, linear, Transverse to Flow	96.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	53.3 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D 696
Deflection Temperature at 0.46 MPa (66 psi)	215 Â°C	419 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	217 Â°C @Thickness 3.20 mm	423 Â°F @Thickness 0.126 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	183 Â°C	361 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	196 Â°C @Thickness 3.20 mm	385 Â°F @Thickness 0.126 in	unannealed; ASTM D 648

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