

SABIC Innovative Plastics LNP Thermocomp QF008S PA 6/10 (Asia Pacific)

Category : Polymer , Thermoplastic , Nylon , Nylon 610

Material Notes:

LNP* Thermocomp* QF008S is a compound based on Nylon 6/10 resin containing Glass Fiber. Added features of this material include: Heat Stabilized. This data was supplied by SABIC-IP for the Asia Pacific region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Thermocomp-QF008S-PA-610-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	1.41 g/cc	0.0509 lb/in ³	ASTM D 792
	1.42 g/cc	0.0513 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.090 %	0.090 %	23°C / 50% RH; ISO 62

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	171 MPa	24800 psi	ASTM D 638
	183 MPa	26500 psi	ISO 527
Elongation at Break	3.3 %	3.3 %	ASTM D 638
Tensile Modulus	12.42 GPa	1801 ksi	50 mm/min; ASTM D 638
Flexural Strength	255 MPa	37000 psi	ASTM D 790
Flexural Modulus	10.78 GPa	1564 ksi	ISO 178
	10.79 GPa	1565 ksi	ASTM D 790
Izod Impact, Notched	1.33 J/cm	2.49 ft-lb/in	ASTM D 256
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Unnotched	11.1 J/cm	20.8 ft-lb/in	ASTM D 4812
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Notched (ISO)	15.0 kJ/m ²	7.14 ft-lb/in ²	80*10*4; ISO 180/1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	219 °C	426 °F	unannealed; ASTM D 648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	214 °C	417 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af

Thermal Properties	Metric	English	Comments
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D 648

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