

SABIC Innovative Plastics LNP Thermocomp FF008L PE

Category : Polymer , Thermoplastic , Polyethylene (PE)

Material Notes:

LNP* Thermocomp* FF008L is a compounding based on Polyethylene containing glass fiber. Added characteristics include Low Extractible. 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-FF008L-PE.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.27 g/cc	1.27 g/cc	ASTM D 792
Density	1.27 g/cc	0.0459 lb/in ³	ASTM D 792
Moisture Absorption at Equilibrium	0.030 %	0.030 %	23 ^o C / 50% RH; ISO 62
	0.030 %	0.030 %	50% RH; ASTM D 570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0090 - 0.020 cm/cm	0.0090 - 0.020 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.010 - 0.030 cm/cm	0.010 - 0.030 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	33.0 MPa	4790 psi	Type I, 5 mm/min; ASTM D 638
	34.0 MPa	4930 psi	5 mm/min; ISO 527
Tensile Strength, Yield	34.0 MPa	4930 psi	5 mm/min; ISO 527
	36.0 MPa	5220 psi	Type I, 5 mm/min; ASTM D 638
Elongation at Break	0.70 %	0.70 %	5 mm/min; ISO 527
	0.80 %	0.80 %	Type I, 5 mm/min; ASTM D 638
Elongation at Yield	0.70 %	0.70 %	5 mm/min; ISO 527
	0.70 %	0.70 %	Type I, 5 mm/min; ASTM D 638
Tensile Modulus	6.49 GPa	941 ksi	1 mm/min; ISO 527
	8.47 GPa	1230 ksi	50 mm/min; ASTM D 638
Flexural Strength	47.0 MPa	6820 psi	ISO 178

Mechanical Properties	Metric	English	Comments
Flexural Yield Strength	69.0 MPa	10000 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Modulus	2.75 GPa	399 ksi	1.3 mm/min, 50 mm span; ASTM D 790
	6.25 GPa	906 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.450 J/cm @Temperature 23.0 Â°C	0.843 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Unnotched	1.37 J/cm @Temperature 23.0 Â°C	2.57 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)	7.00 kJ/mÂ² @Temperature 23.0 Â°C	3.33 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603
	8.00 J @Temperature 23.0 Â°C	5.90 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Total Energy; ASTM D 3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	37.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	20.6 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D 696
CTE, linear, Transverse to Flow	65.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	36.1 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D 696
Deflection Temperature at 0.46 MPa (66 psi)	127 Â°C	261 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	127 Â°C @Thickness 3.20 mm	261 Â°F @Thickness 0.126 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	96.0 Â°C	205 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	97.0 Â°C	207 Â°F	

Thermal Properties

Metric
@ Thickness 3.20 mm

English
@ Thickness 0.126 in

unannealed; ASTM D 648
Comments

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