

SABIC Innovative Plastics LNP Thermocomp OF004AER PPS

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS)

Material Notes:

LNP* Thermocomp* OF004AER is a compound based on Polyphenylene Sulfide resin containing Glass Fiber. Added features of this material include: Easy Molding, Mold Release. 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-OF004AER-PPS.php

Physical Properties	Metric	English	Comments
Density	1.48 g/cc	0.0535 lb/in ³	ASTM D 792
	1.48 g/cc	0.0535 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
	0.0041 cm/cm	0.0041 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0090 - 0.011 cm/cm	0.0090 - 0.011 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
	0.010 cm/cm	0.010 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	84.0 MPa	12200 psi	ISO 527
	93.0 MPa	13500 psi	ASTM D 638
Tensile Strength, Yield	84.0 MPa	12200 psi	ISO 527
	93.0 MPa	13500 psi	ASTM D 638
Elongation at Break	1.0 %	1.0 %	ISO 527
	1.1 %	1.1 %	ASTM D 638
Elongation at Yield	0.90 %	0.90 %	ISO 527
	1.1 %	1.1 %	ASTM D 638
Tensile Modulus	9.58 GPa	1390 ksi	50 mm/min; ASTM D 638
	9.86 GPa	1430 ksi	1 mm/min; ISO 527

Flexural Strength Mechanical Properties	103 MPa Metric	14900 psi English	ASTM D 790 Comments
	117 MPa	17000 psi	ISO 178
Flexural Modulus	8.27 GPa	1200 ksi	ASTM D 790
	9.00 GPa	1310 ksi	ISO 178
Izod Impact, Notched	0.640 J/cm @Temperature 23.0 Â°C	1.20 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Unnotched	2.56 J/cm @Temperature 23.0 Â°C	4.80 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812
Izod Impact, Notched (ISO)	8.00 kJ/mÂ² @Temperature 23.0 Â°C	3.81 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	18.0 kJ/mÂ² @Temperature 23.0 Â°C	8.57 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
	3.00 J @Temperature 23.0 Â°C	2.21 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Energy @ peak; ASTM D 3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	46.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	25.6 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
	46.8 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	26.0 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
CTE, linear, Transverse to Flow	28.8 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	16.0 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
	29.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	16.1 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	227 Â°C	441 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf

Thermal Properties	277 Â°C Metric	531 Â°F English	Comments ; ASTM D 648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	263 Â°C	505 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	260 Â°C	500 Â°F	unannealed; ASTM D 648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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