

SABIC Innovative Plastics LNP THERMOCOMP 2X03624H FP-F (FEP)

Category : Polymer , Thermoplastic , Fluoropolymer , FEP

Material Notes:

LNP* THERMOCOMP* 2X03624H is a compound based on FEP resin containing Proprietary Filler(s).

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-2X03624H-FP-F-FEP.php

Physical Properties	Metric	English	Comments
Density	2.22 g/cc	0.0802 lb/in ³	ISO 1183
	2.23 g/cc	0.0806 lb/in ³	ASTM D792
Moisture Absorption	0.0300 %	0.0300 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0389 cm/cm	0.0389 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.039 cm/cm	0.039 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0449 cm/cm	0.0449 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.045 cm/cm	0.045 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	13.0 MPa	1890 psi	ASTM D638
	14.0 MPa	2030 psi	ISO 527
Elongation at Yield	7.2 %	7.2 %	ISO 527
	9.3 %	9.3 %	ASTM D638
Flexural Strength	13.0 MPa	1890 psi	ASTM D790
	16.0 MPa	2320 psi	ISO 178
Flexural Modulus	0.600 GPa	87.0 ksi	ISO 178
	0.620 GPa	89.9 ksi	ASTM D790
Izod Impact, Notched	5.66 J/cm	10.6 ft-lb/in	ASTM D256
Izod Impact, Unnotched	NB	NB	ASTM D4812

Mechanical Properties	Metric	English	Comments
Izod Impact, Unnotched (ISO)	NB	NB	80*10*4; ISO 180/1U
Dart Drop, Total Energy	30.0 J	22.1 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	46.0 J	33.9 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	121 $\hat{\mu}\text{m}/\text{m}\cdot\hat{\text{A}}^\circ\text{C}$	67.2 $\hat{\mu}\text{in}/\text{in}\cdot\hat{\text{A}}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $\hat{\text{A}}^\circ\text{C}$	@Temperature -40.0 - 104 $\hat{\text{A}}^\circ\text{F}$	
	121 $\hat{\mu}\text{m}/\text{m}\cdot\hat{\text{A}}^\circ\text{C}$	67.2 $\hat{\mu}\text{in}/\text{in}\cdot\hat{\text{A}}^\circ\text{F}$	ISO 11359-2
	@Temperature -40.0 - 40.0 $\hat{\text{A}}^\circ\text{C}$	@Temperature -40.0 - 104 $\hat{\text{A}}^\circ\text{F}$	
CTE, linear, Transverse to Flow	126 $\hat{\mu}\text{m}/\text{m}\cdot\hat{\text{A}}^\circ\text{C}$	70.0 $\hat{\mu}\text{in}/\text{in}\cdot\hat{\text{A}}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $\hat{\text{A}}^\circ\text{C}$	@Temperature -40.0 - 104 $\hat{\text{A}}^\circ\text{F}$	
Deflection Temperature at 1.8 MPa (264 psi)	58.0 $\hat{\text{A}}^\circ\text{C}$	136 $\hat{\text{A}}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Af
	53.0 $\hat{\text{A}}^\circ\text{C}$	127 $\hat{\text{A}}^\circ\text{F}$	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648

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