

## GrafTech eGRAF® HITHERMâ, ¢ HT-1220 Graphite

Category: Carbon, Graphite

## **Material Notes:**

Made from natural graphite, eGRAF® HITHERMâ,¢ thermal interface materials are designed for use in applications requiring low contact resistance and high thermal conductivity. HITHERMâ,¢ material is offered in a variety of through thickness thermal conductivities, available in roll or die-cut form and can be laminated with plastics and adhesives. An economical thermal interface material, HITHERMâ,¢ products will not dry out and no outgassing occurs under vacuum conditions. The conformability of HITHERMâ,¢ materials optimizes thermal properties, ensures excellent contact, and is maintained for the life of the assembly. Typical applications include thermal interfaces, chip burn-in, chip testing fixtures, DC-to-DC converters, CPU modules, microprocessors, and hot and cold plates.

## Order this product through the following link:

http://www.lookpolymers.com/polymer\_GrafTech-eGRAF-HITHERM-HT-1220-Graphite.php

Physical Properties	Metric	English	Comments
Thickness	508 microns	20.0 mil	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	3.20 MPa	464 psi	ASTM-F152

Thermal Properties	Metric	English	Comments
CTE, linear	-0.400 Âμm/m-°C	-0.222 Âμin/in-°F	In-Plane
	27.0 Âμm/m-°C	15.0 Âμin/in-°F	Through Thickness
Specific Heat Capacity	0.711 J/g-°C	0.170 BTU/lb-°F	
Thermal Conductivity	10.0 W/m-K	69.4 BTU-in/hr-ft²- °F	Through Thickness; ASTM-D5470 Modified (at 110kPa/16 psi/1.1 bar)
	150 W/m-K	1040 BTU-in/hr-ft²- °F	In-Plane; Angstrom's Method
Maximum Service Temperature, Air	400 °C	752 °F	
Minimum Service Temperature, Air	-40.0 °C	-40.0 °F	
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00100 ohm-cm	0.00100 ohm-cm	In-Plane
	1.50 ohm-cm	1.50 ohm-cm	Through Thickness

Descriptive Properties	Value	Comments



Descriptive Properties Jance - Per Side (ŰCŠcmŰ/W)	Value	Comments 100 psi/6.9 bar
	0.98	at 100 kPa/14.5 psi/1 bar

## **Contact Songhan Plastic Technology Co.,Ltd.**

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