GrafTech eGRAFÂ® HITHERMâ„¢ HT-705 Graphite

Category : Carbon , Graphite

Material Notes:

Made from natural graphite, eGRAFÂ® 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-705-Graphite.php

Physical Properties	Metric	English	Comments
Thickness	127 microns	5.00 mil	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	4.90 MPa	711 psi	ASTM-F152

Thermal Properties	Metric	English	Comments
CTE, linear	-0.400 Âµm/m-Â°C	-0.222 Âµin/in-Â°F	In-Plane
	27.0 Âµm/m-Â°C	15.0 Âµin/in-Â°F	Through Thickness
Specific Heat Capacity	0.711 J/g-Â°C	0.170 BTU/lb-Â°F	
Thermal Conductivity	6.00 W/m-K	41.6 BTU-in/hr-ftÂ²-Â°F	Through Thickness; ASTM-D5470 Modified (at 110kPa/16 psi/1.1 bar)
	240 W/m-K	1670 BTU-in/hr-ftÂ²-Â°F	In-Plane; Angstrom's Method
Maximum Service Temperature, Air	400 Â°C	752 Â°F	
Minimum Service Temperature, Air	-40.0 Â°C	-40.0 Â°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	Value	Comments
dance - Per Side (Â°CÂ·cmÂ²/W)		100 psi/6.9 bar
	0.44	at 100 kPa/14.5 psi/1 bar

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