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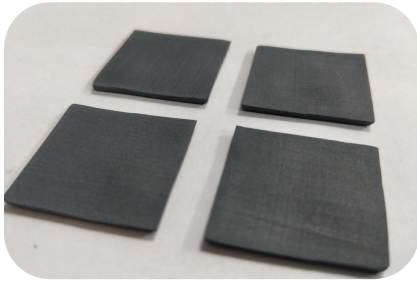
HFC

Innovative Materials Manufacturer

HFS-20 series

【Thermal Gap Filler】

DATA SHEET



-Product picture-

FEATURES:

- High thermal conductivity and low thermal resistance
- Low stress assembly
- Good thermal stability
- Multiple thickness options, wide range of applications
- Slight color difference on the surface is a product characteristic and does not affect performance

APPLICATIONS:

- Satellite, radar and other military fields
- Between chip and heat-dissipation modules
- Optoelectronic Industry
- Netcom products
- Wearable equipments

This series of products are environmentally compliant with RoHS 2.0, halogen, and REACH standards.

STORAGE CONDITIONS: Storage in the darkness

STORAGE TEMPERATURE: $\leq 30\text{ }^{\circ}\text{C}$

STORAGE HUMIDITY: $\leq 70\%$

The height of the stacking should not be more than 7 layers and the total height should not be more than 1m.

SHELF LIFE:

Under storage conditions: 2 year

HFC HFS-20 is a high-efficiency thermally conductive gasket with good thermal conductivity and low thermal resistance, which can effectively fill the gap between the heating end and the cooling end, and achieve efficient heat transfer between the heating part and the cooling part. Amplitude reduces interface thermal resistance. At the same time, the high-efficiency heat sink can also be used under lower stress conditions to avoid damage to chips, PCBs and other components from mounting stress. The product is extremely technical and usable, and can be used in devices such as photovoltaic modules and Netcom that require .

PROPERTIES

| Items | Parameter | Unit | Test Method |
|-----------------------|--------------------|--------------------|----------------|
| Color | Gray Black | - | Visual |
| Specification | 120*120 | mm | ASTM D 5947 |
| Thickness Range | 0.25~3 | mm | ASTM D 374 |
| Hardness | 65 | Shore 00 | ASTM D 2240 |
| Density | 3.4 | g/cc | ASTM D 792 |
| Tensile Strength | ≥ 0.1 | Mpa | ASTM D 412 |
| Elongation | ≥ 100 | % | ASTM D 412 |
| Tear strength | ≥ 0.5 | N/mm | ASTM D 624 |
| Compression Ratio | ≥ 40 (@50Psi) | % | ASTM D 575 |
| Operating Temperature | -50~150 | $^{\circ}\text{C}$ | IEC 60068-2-14 |

THERMAL CHARACTERISTIC

| | | | |
|----------------------|-----------------------|---------------------------------|-------------|
| Thermal conductivity | 16.0 | W/m·K | ASTM D 5470 |
| Thermal resistance | ≤ 0.2 (@30%&2mm) | $^{\circ}\text{Cin}^2/\text{W}$ | ASTM D 5470 |

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