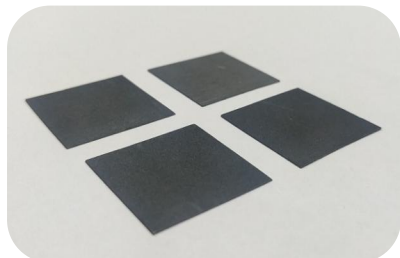




## DATA SHEET



-Product picture-

### FEATURES:

- Soft surface, good compressibility
- Low thermal resistance
- Low stress assembly
- Lightweight, high resilience
- Good thermal stability

### APPLICATIONS:

- Satellite, radar and other military fields
- Large server
- Data Processing Center
- High-performance mobile phones, etc.

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

**STORAGE CONDITIONS:** Storage in the darkness

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

**STORAGE HUMIDITY:**  $\leq 70\%$

### SHELF LIFE:

Under storage conditions: 2 year

Non storage conditions: 6 months.

HFC **HFS-18C** is a new type of high-efficiency thermally conductive gasket with high thermal conductivity and high resilience rate. By using an advanced arrangement technology, the high thermal conductivity filler is uniformly and vertically distributed in the polymer matrix, which can greatly improve the efficiency of heat transfer. At the same time, it has good compression resilience, good mechanical properties and excellent thermal stability, and is widely used in electronic fields that require relatively high heat dissipation.

### PROPERTIES

Items	Parameter	Test Method
Color	Gray Black	Visual
Standard Size (mm)	100*100	ASTM D 5947
Thickness (mm)	0.5~2	ASTM D 374
Hardness (Shore 00)	50( $\pm 10$ )	ASTM D 2240
Density (g/cc)	2.0( $\pm 0.2$ )	ASTM D 792
Compressive stress (Psi)	Transient	$\leq 120$ ASTM D 575
	Static	$\leq 50$ (@10min) ASTM D 575
Rebound Rate (%)	$\geq 50$	ASTM D 575
Rate Of Oil Yield (%)	$< 3$	HFC
Operating Temperature ( $^{\circ}\text{C}$ )	-40~125	IEC 60068-2-14

### THERMAL CHARACTERISTIC

Thermal Conductivity (W/m•K)	20	ASTM D 5470
Thermal Resistance ( $^{\circ}\text{C}\cdot\text{cm}^2/\text{W}$ )	$\leq 0.2$ (@10psi/2mm)	ASTM D 5470

### THERMAL RESISTANCE VS PRESSURE (T=2mm)

Pressure (Psi)	10	20	30	40	50
Thermal Resistance ( $^{\circ}\text{C}\cdot\text{in}^2/\text{W}$ )	0.126	0.139	0.152	0.160	0.166
Compression Rate (%)	17.25	45.03	58.13	65.53	70.83

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