MODUS™
IDEA TO IGNITION™

WesTherm

DATASHEET

WESTHERM™ FILM-GP THERMALLY CONDUCTIVE INSULATOR

Modus Advanced, Inc.'s WesTherm™ Film-GP is a composite of silicone rubber and fiberglass. The material is flame retardant and is specially formulated for use as a thermally conductive insulator. The primary use for the material is to electrically isolate power sources from heat sinks. Film-GP has excellent mechanical and physical characteristics. Surfaces are pliable and allow complete surface contact with excellent heat dissipation. The product actually improves its thermal resistance with age. The reinforcing fiberglass provides excellent cut-through resistance. It is non-toxic and resists damage from cleaning agents.

TYPICAL PROPERTIES	
Property	**Value**
Color	Gray
Reinforced Carrier	Fiberglass
Thickness (inch) / (mm)	Imperial Value: 0.007, 0.009; Metric Value: 0.178, 0.229
Hardness (Shore A)	85
Breaking Strength (lbs/inch)	Imperial Value: 30; Metric Value: 5
Elongation (% at 45° to Warp and Fill)	54
Tensile Strength (psi) / (MPa)	Imperial Value: 3000; Metric Value: 20
Continuous Use Temp (°F) / (°C)	Imperial Value: -76 to 356; Metric Value: -60 to 180

APPLICATIONS

- Power supplies
- Automotive electronics
- Power semiconductors
- Motor controls

FEATURES AND BENEFITS

- Thermal Conductivity 0.90 W/m-k
- Thermal Resistance improves with age
- Designed for electrical isolating applications

ELECTRICAL

- Dielectric Breakdown Voltage (Vac): 3500, 4500
- Dielectric Constant (100 Hz): 5.5
- Volume Resistivity (Ohm-meter): 1011
- Flame Rating: V-O

THERMAL

- Thermal Conductivity (W/m-k): 0.9

AVAILABILITY

- Die-cut parts, with or without pressure sensitive adhesive

1 **IDEA**
You design the perfect part

2 **ENGINEERING**
You specify the best material

3 **SOLUTION**
We strategically plan

4 **IGNITION**
We produce and deliver

MODUS ADVANCED TAKES YOU FROM IDEA TO IGNITION

IDEA · ENGINEERING · SOLUTION · IGNITION

PICK A MATERIAL
LET MODUS CUT IT TO SIZE

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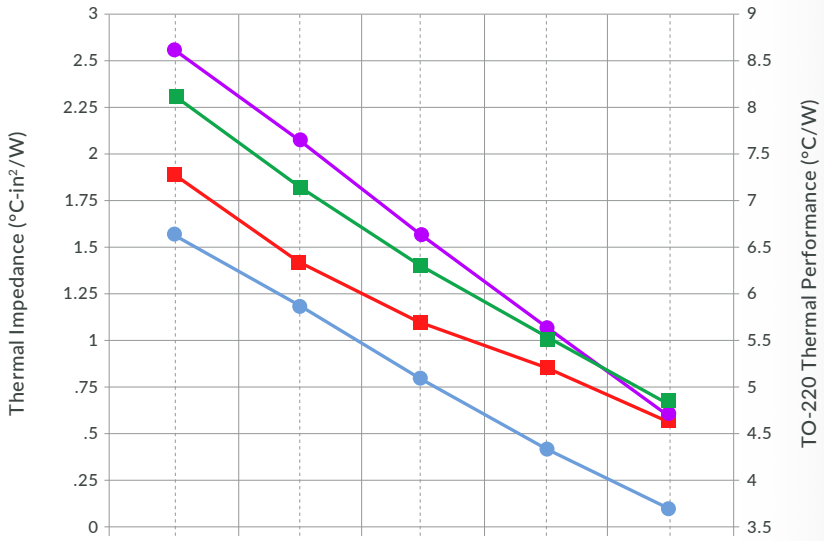
FILM-GP THERMAL PERFORMANCE VS. PRESSURE



Pressure (psi)	10	25	50	100	200
Thermal Impedance 0.007"	1.82	1.42	1.13	0.82	0.54
TO-220 Thermal Perfomance 0.007" (I)	6.62	5.93	5.14	4.38	3.61
Thermal Impedance 0.009"	2.34	1.83	1.45	1.05	0.69
TO-220 Thermal Perfomance 0.009" (I)	8.51	7.62	6.61	5.63	4.64

CUSTOMERS ALSO SEARCHED:

gap filler	thermal gap pad	thermal interface pad	thermally conductive rubber
thermal material	thermal gap filler	thermally conductive pad	thermal conductive pads
thermal interface materials	thermal interface pad	silicone gap filler	what is a thermal pad
thermal putty	thermal materials	conductive pads	
thermal conductive pad	thermal silicone	thermal pad material	
gapfiller	heat transfer pad	silicone thermal pad	

ABOUT MODUS

We are Modus! With multiple locations in North America and China, Modus Advanced, Inc. is a diversified custom manufacturer that converts EMI Shielding, Environmental Gasket Materials, Microwave Absorbers, Acoustic Materials, Thermal Interface Materials and other high performance materials into finished parts. Modus utilizes its 40 years as an established provider of high quality, reliable products to create precisely what customers specify. Innovative processes; custom fabrication utilizing performance materials; an on time delivery record of more than 99% means Modus is well positioned to help your company succeed.

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