



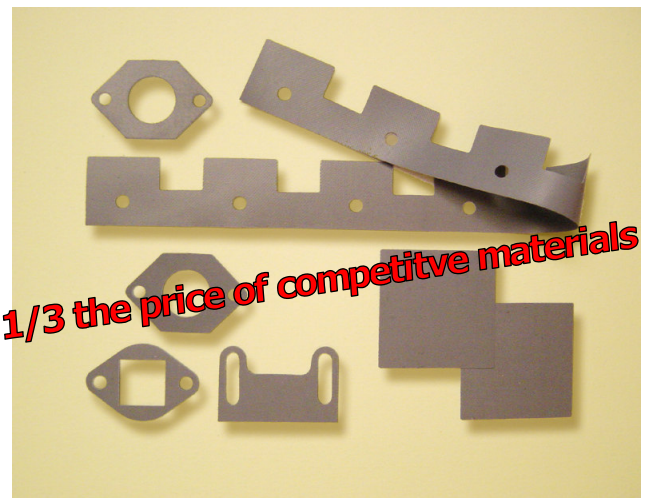
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e-Therm 150

Thermal Conductive Insulating Rubbers

e-Therm 150 is a silicone rubber filled with conductive fillers and reinforced with fiberglass. This low cost material is ideal for transferring heat from electronic components while providing electrical insulation from heat sinks, where cost is also an important factor.

- High thermal conductivity.
- High dielectric strength.
- High thermal resistance and stability.
- Thermal performance improves with age.
- Effective over a wide range of temperature.
- Reinforcement keeps also thin sheets resistant to tear.
- Greaseless, non-flowing, non-cracking, one component material.
- Flame retardant.
- Chemical resistance for process cleaning agents.
- Available in sheets or custom die-cut parts.
- Standard thicknesses: 0.23, 0.30, 0.45, 0.80 mm.
- Available also with pressure sensitive adhesive .



Physical Properties	Typical Value				Test Method
Elastomer binder	Silicone				
Color	Grey				
Operational Temperature, °C	(-60) to (+180)				
Hardness, Shore A	82±5				ASTM D-2240
Tensile Strength, psi (Mpa)	2800 (19.3)				ASTM D-412
Elongation, %	50				ASTM D-412
Tear Strength lb/in (kN/m)	310 (54)				ASTM D-624
Volume Change in Water 24hr@25°C	+0.2%				ASTM D-471
Specific Gravity, gr/cm ³	1.7				ASTM D-792
UL Flammability Rating	V-0				UL94
Heat Aging after 70hr @ 200°C					ASTM D-573
Hardness Change, points	0				
Tensile Strength Change, %	+15				
Elongation Change, %	-4				
Thermal Conductivity, W/m-K	1.0				ASTM D-5470
Thermal Impedance, °C-in ² /W	0.23mm	0.30mm	0.45mm	0.80mm	ASTM D-5470
	0.35	0.47	0.70	1.24	
Voltage Breakdown, KV	0.23mm	0.30mm	0.45mm	0.80mm	ASTM D-149
	2.5	4	10	15	
Dielectric Constant @ 10KHz	5				ASTM D-150