



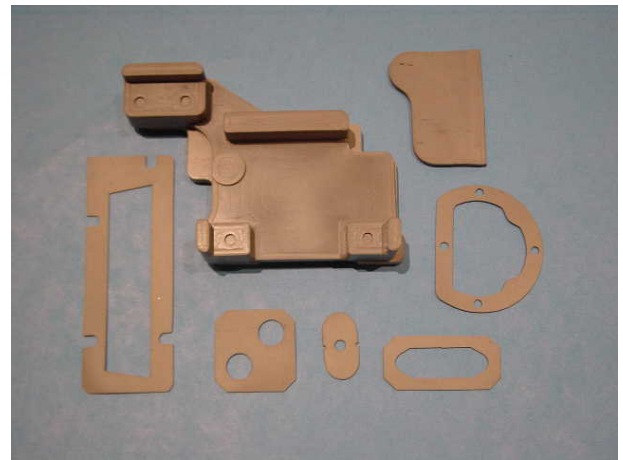
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e-Therm 250

Thermally Conductive Insulating Rubbers

e-Therm 250 is a silicone rubber filled with proprietary, thermally conductive ceramic filler. This material has unique thermal conductivity and is useful where very high thermal conductivity is required while electrical insulation is maintained.

- Very high thermal conductivity.
- High dielectric strength.
- High thermal resistance and stability.
- Low compression set.
- Ability to conform to uneven surfaces improves thermal conductivity with time.
- Thermal performance improves with age.
- Effective over a wide range of temperature.
- Can be molded to any shape.
- Greaseless, non-flowing, non-cracking, one component material.
- Flame retardant.
- Chemical resistance for process cleaning agents.
- Available also in sheets or custom die-cut parts.
- 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	75±5	ASTM D-2240
Tensile Strength, psi (MPa)	210 (1.43)	ASTM D-412
Elongation, %	10	ASTM D-412
Modulus, psi (MPa)	2150 (14.6)	ASTM D-624
Volume Change in Water 70hr@25°C	+0.08%	ASTM D-471
Specific Gravity, gr/cm ³	2.3	ASTM D-792
Low Temperature Brittleness, °C	-55	
Heat Aging after 70hr @ 200°C		ASTM D-573
Hardness Change, points	2	
Modulus Change, %	+26	
Elongation Change, %	-6	
Thermal Conductivity, W/m-K	20.0	ASTM D-5470
Volume Resistivity (ohm-cm)	>10 ¹⁴	ASTM D-5470
Dielectric Constant	6.6	ASTM D-150