

GENERAL DESCRIPTION

Thermal Block is a Flexible, Multi-Layered, Stick-On HeatShield that provides a Cost-Effective, Durable and more easily Installed alternative to All-Metal HeatShield

- PRODUCT HIGHLIGHTS**
- ✓ Provides a simple and low-cost solution for mid-temperature thermal shielding applications
 - ✓ The flexible structure of Thermal Block can conform to various curvatures and shapes
 - ✓ The pressure sensitive adhesive allows it to be directly attached to most automotive surfaces (body structure surfaces, fuel tanks, fascias, suspension components, etc)
 - ✓ Meets General Motors GMN10046, Ford WSS-M9932A/B and Chrysler MS-10943



APPLICATION

Typically used as a “Quick-Fix” for Thermal Hot-Spots in Automotive Applications such as Fuel Tank, Fuel Line, Brake Line, Spare Tire and Underbody HeatShields.

MATERIAL PROPERTIES

THICKNESS	4.0mm +/- 1.5mm (can be tailored to meet specific requirements)
ADHESION PROPERTIES	Adhesion can be tailored to most automotive surfaces (steel, electro-coated metals, HDPE, etc)
SOLVENT RESISTANCE	Water, Salt Solution, Oil, Sulfuric Acid, Coolant, Trans fluid, Brake Fluid, Gasoline ¹
FLAMMABILITY	Passes FMVSS302

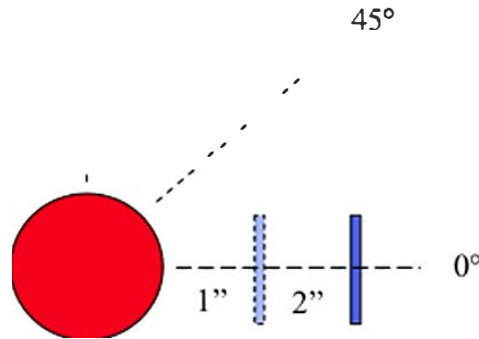
- OTHER PROPERTIES**
- ✓ Thermal Block is made of a reflective Aluminum surface, a non-needled, non-woven fiber insulation layer and a pressure sensitive adhesive (PSA)
 - ✓ The Aluminum surface and fiber insulation layer can be adjusted to meet the insulation needs of the project
 - ✓ Resistant to mildew
 - ✓ Passes Gravelometer, SAE J400

¹On slight modification of structure with extended aluminum sheet

THERMAL PERFORMANCE

TEST SET UP

90°



Heat source, 1000 F

RESULTS

Position	0°		45°		90°	
	1"	2"	1"	2"	1"	2"
Al (hot side)	246	204	371	299	459	390
Al (cold side)	183	156	246	207	360	308
Base crs (hot side)	142	123	174	154	247	221
Temperature Drop (hot side to hot side)	104	81	197	145	212	169

NOTES

1. Recommended application temperature for best results is 65°F (18°C) or above. Proper bonding may not occur unless adhesive and surface materials are both above 65°F (18°C).
2. When applying the the surface should be free from oil or other surface contaminates such as powder, dust or release agents. Performance should be checked when used on substrates containing plasticizers.
3. Shelf life of the is one year from date of shipment when stored in a cool dry place beow 76°F (24°C).