

Flexible Closed-Cell Sheet Insulation Designed for the HVAC/R Industry

UL 94
(Recognition No. E300774)

R-8
sheet

Made in USA



Contains a Protective
Antimicrobial Agent

GREENGUARD
Children & Schools
Indoor Air Quality Certified

UV resistant (Refer to K-Flex USA, L.L.C.
Technical Bulletin
(Outdoor Applications) for More Information)

to meet International Energy Conservation
Code requirements for Outdoor Ductwork



FEATURES AND BENEFITS

- Flexible elastomeric thermal insulation.
- Available in both flat sheets and in rolls.
- Also available as skin one side with a specially formulated scrim reinforced acrylic adhesive and tear resistant release liner on the opposite side.
- Supplied with Pressure Sensitive Adhesive (PSA) gives the benefits of having tear and moisture resistant easy release liner, reinforced scrim prevents stretching insulation, and improves peel strength. It also speeds up installation time and reduces the amount of solvent based contact adhesive required.
- GREENGUARD® certified as low VOC materials, "Children and Schools" classification, and listed as "Mold Resistant".
- Retard heat gain and prevent condensation or frost formation on cold equipment, tanks, vessels, ducts or large O.D. pipes.

- Can be used as duct covering.
- Insul-Sheet® is recommended for applications ranging from -297°F to 220°F (-70°F to 200°F with PSA).
- Low transmittance vapor retarder.

SPECIFICATION COMPLIANCE

- ASTM C 411 (Test Method for Hot Surface Performance of High Temperature Thermal Insulation)
- ASTM C 534 Type 2 (Sheet), Grade 1
- ASTM D 1056-00-2C1
- ASTM E 84 2" (1-1/2" with PSA) 25/50-tested according to UL 723 and NFPA 255 complies with requirements of CAN/ULC S102-03
- NFPA No. 101 Class A Rating
- New York City MEA 186-86-M Vol. V

- STC = 17 per ASTM E90
- UL 94-5V Flammability Classification (Recognition No. E300774)
- Meets requirements of NFPA 90A/B Sect. 2.3.3 for Supplementary Materials for Air Distribution Systems
- Meets requirements of UL 181 sections 11.0 and 16.0 (Mold Growth/Air Erosion)
- MIL-P-15280, Form S (Sheet)
- R8 Sheet meets R-value requirements of the International Energy Conservation Code for Outdoor Ductwork

Physical Properties	INSUL-SHEET® Insulation		Test Methods
Thermal Conductivity (K)	90°F (32°C) Mean Temp	.27 (.039)	ASTM C 177/C 518
BTU - in/hr - Ft ² - °F (W/mK)	75°F (24°C) Mean Temp	0.25 (0.036)	ASTM C 177/C 518
Density		3-6 PCF	ASTM D 1622/D 3575
Operating Temperature Range	Upper	200°F (93°C)	
Flexible to -40°F (-40°C)	Lower	-297°F (-182°C)	
Water Vapor Permeability Dry Cup. Perm-In		<0.06	ASTM E 96
Water Absorption %		<0.20 by volume	ASTM C 209
Flame Spread (up to 2" wall)		Not greater than 25	ASTM E 84
Smoke Developed (up to 2" wall)		Not greater than 50	ASTM E 84
Ozone Resistance		Pass	ASTM D 1171
Chemical/Solvent Resistance		Good	
Mildew Resistance/Air Erosion		Pass	UL 181

INSUL-SHEET® "R" Values

R Value 3/8"*	R Value 1/2"*	R Value 3/4"*	R Value 1"*	R Value 1 1/2"*	R Value 2"*
1.5	2	3	4	6	8
*All sizes are nominal					

Note: "R" factors were calculated using a K factor of 0.2575 (0.25 plus 3% test error allowance at 75° F, 24°C mean temp.) and nominal wall thickness is each case. Lower operating temperatures will result in improved R values. Contact Technical Services for specific recommendations.