

# Gulf-O-Flex Insulation Sheets

## Product Data

Physical Properties				
1	Cell Structure	Closed		
2	Density Gms / Cm <sup>3</sup>	0.050 - 0.070 Gms / cm <sup>3</sup>	BS 476 Part 6 & 7 ASTM D 3575-91	
3	Thermal Conductivity K Value at 40C mean Temperature	0.0391 w/m - K	ASTM C518	BS 874 1986
4	Temperature limit °C	-40 °C to +120 °C		
5	Thermal Stability % Shrinkage	2.54 (7 days at 95 °C)	ASTM D 3575-91	
6	Water Absorption	2.98	ASTM D 3575-91	
7	Water vapour Permeability perm/Max	0.19 Perm - in	ASTM E 96-95	ASTM E 96-95
8	Resistance to Ozone	Excellent	ASTM D 1149	
9	Flammability	Self Extinguishing	ASTM D 635-91	
10	Fire Rating	Class 0, Class 1 25 / 50	BS 476 Part 6 & 7 ASTM E-84	
11	Average time of Burning	Less then 4 Sec	ASTM D 1149	
12	Average extend of Burning	15min		
13	Flexibility	Excellent	ASTM D 1056-85	
14	Resistance to Weather & Ultra Violet Rays	Very Good	ASTM G 53-96	
15	Resistance to Chemicals	Very Good		
16	Odour	Negligible	SAEJ 1351	
17	Mildew resistance	No Fungal Growth	ASTM G 21-80	
18	Copper Corrosion	Negligible	ASTM C 665-94	

## INSULATION THICKNESS RECOMMENDATIONS

### THICKNESS RECOMMENDATIONS FOR CONTROLLING OUTER INSULATION SURFACE SWEATING

	50°F (10°C)	35°F (2°C)	0°F (-18°C)
<p><b>BASED ON NORMAL DESIGN CONDITIONS</b> Gulf-O-Flex in the thicknesses noted and within the specified temperature ranges will control outer insulation surface condensation indoors under normal design conditions, a maximum severity of 85°F (29°C) and 70% RH. Gulf-O-Flex research and field experience indicate that indoor conditions anywhere in the US States seldom exceed this degree of severity.</p>	Nom 3/8" (9mm)	Nom 3/4" (19mm)	Nom 1-1/2" (38mm)
<p><b>BASED ON MILD DESIGN CONDITIONS</b> Gulf-O-Flex in the thicknesses noted and within the specified temperature ranges will control outer insulation surface condensation indoors under mild design conditions, a maximum severity of 80°F (27°C) and 50% RH. Typical of these conditions are most air conditioned spaces and arid climates.</p>	Nom 1/8" (3mm)	Nom 1/4" (6mm)	Nom 1/2" (13mm)
<p><b>BASED ON SEVERE DESIGN CONDITIONS</b> Gulf-O-Flex in the thicknesses noted and within the specified temperature ranges will control outer insulation surface condensation indoors under severe design conditions, a maximum severity of 90°F (32°C) and 80% RH. Typical of these conditions are indoor areas in which excessive moisture is introduced or in poorly ventilated confined areas where the temperature may be depressed below ambient.</p>	Nom 1" (25mm)	Nom 1-1/2" (38mm)	Nom 2" (50mm)