SUPER THERM

**TEST LISTINGS**

Revised 10-09-01

1. ASTM Testing:
   G 53 exposure to UV, elevated temperature and humidity  Passed
   E 96 water vapor transmission Passed - less than .01
   D522 resistance to cracking on metal or rubber type materials Passed - 1" (25mm) bend
   D412 Tensile strength 1/4" (6mm) bend Passed
   D1653 Vapor rate of passage .041 thickness = 444 psi
   BOCA (Building Officials Code Administrators) USA
   Section 723.2 Exposed installations, Thermal insulation
   Section 723.3 Concealed installations, Thermal insulation
   Section 803.2 Classification, Interior finish
   1998 International Mechanical Code
   Section 604.3 Coverings and Linings, Insulation
   Passed
   E 84-89 Flame spread and Smoke generation Passed - "0" development
   E 119 Structural Steel Fire curve Passed - 25 minutes
   C 177 thermal conductivity testing Passed
   C 411 thermal resistance and conductivity Passed
   Thermal penetration through a substrate by--
   E 1269 differential scanning calorimeter
   E 1461-92 laser flash technique
   conductivity/diffusivity
   Passed - blocking 99% of heat
   BTU conduction
   Allowed only 3.99 BTU's of heat
to conduct at 100 C.
   D1654 Salt spray only-
   Weathering/UV in China (Next Page - 2000 hours)
   Passed - 450 hours
   D3274 rating degree of fungal growth or soil and
   dirt accumulation on paint film
   D4060 Abrasion Resistance of Organic Coatings by the
   Taber Abraser
   Passed - excellent (8 out of 9)
   3000 cycles, Wheel size CS 17
   Load on Wheel was 1,000 grams
   Wear Index 657/568
2. NASA (National Aeronautics and Space Administration)
   NHB 8060.1B/C Test 1 Flammability testing
   NHB 8060.1C, Test 7 Toxic Offgassing
   Tests performed at Marshall Space Flight Center
   Passed - "0" Burn, Class "A" rating.
   Passed - "K" no offgassing

3. Japanese Institute of Standards
   JIS A 5759 Reflectivity of sunlight on window or coating film
   Passed - Reflective ratio 92.2
   Long Wave Radiation ratio 99.5 (Infrared)

4. USDA test for suitability to be applied around foods
   Environmentally safe and safe for use around animals
   Passed - letter from USDA on file.

   National Bureau for the Inspection of Technologies
   (97) Measurement Approval (National) No. (M0729)
   Passed - 2000 hours Salt, UV, Weathering

6. ENERGY STAR Program
   Approved and accepted as an energy star partner for saving energy.
   Approved partner
   Passed: ASTM E-903-96 Reflectance
   ASTM F-1918 under testing as of 2-4-01.