

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 1/4" (6mm) bend
D412 Tensile strength	Passed .041 thickness = 444 psi Modulus of Elasticity is 13,248 psi
D1653 Vapor rate of passage	Passed
BOCA (<u>B</u> uilding <u>O</u> fficials <u>C</u> ode <u>A</u> dministrators) USA	Passed - ID # 21-25
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	
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--	
E1269 differential scanning calorimeter	
E1461-92 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	Passed - excellent (8 out of 9)
D4060 Abrasion Resistance of Organic Coatings by the Taber Abraser	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.

5. China Center for Technical Testing of Non-Metallic Materials for Ship-Building, China Ship-Building Corporation.

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 Reflec-
tance
ASTM E-1918 under testing as of
2-4-01.