R&D Services

# Test Report

## Emittance Measurement on a Foil/Poly Specimen Supplied by Pactiv Corporation in Plymouth, IN

Prepared For:

Ms. Alisa Hoffee
Pactiv Building Products, Inc.
2100 Riveredge Parkway
Suite 175
Atlanta, GA 30328

R & D Services, Inc.
P.O. Box 2400
Cookeville, Tennessee 38502-2400

Report: RD03211

Reviewed by: Ronald S Graves
Ronald S. Graves
Vice President

June 11, 2003

R&D Services

P.O. Box 2400
Cookeville, Tennessee 38502-2400
Phone: 931-372-8871
Fax: 931-525-3896

Client: Astro-Foil International
10653 W. 181st Avenue
Lowell, IN 46356

Date of Test : June 10, 2003

Specimen: 1021030521-1

RD Test Number: RD031542SE

Project: Emittance of Astro-E FBF Reflective Insulation Sample

Test Protocol: ASTM C 1371-98, "Standard Test Method for Determination of Emittance of Materials Near Room Temperature Using Portable Emissometers".

Procedure

This report presents the results of physical tests conducted on material submitted to R&D Services, Inc. by Innovative Energy, Inc. on May 21, 2003. Testing was completed on June 10, 2003. The sample was labeled Astro-E FBF. Measurements were made on the foil using a Model AE emissometer manufactured by Devices and Services Company of Dallas, Texas.

Observations:

The emissometer was calibrated prior to use and calibration was verified at the end of testing. The final reported emittance is the average of three measurements.

| R&D Identification | Average Emittance | |
|---|---|---|
| 1021030521-1 | 0.03 | Full Piece |
| | 0.03 | Foil Separated from Bubble Pack |

Uncertainty:

The 95% reproducibility as stated in Section 10 of ASTM C1371 is 0.019 units.

Ronald S. Sieder
Reviewed By:

06-14-03
Date:

Test results reported apply only to the specimens tested.