

NFRC Optical Properties Validation

Company Name: _____ Date: _____
Company Address: _____ Phone: _____
_____ Fax: _____
_____ Contact Person: _____

Section I: Diskette and Format Checks

1. Original Disk Contents Copied .
2. Files Copied Properly . Yes ...No
3. Backup Disk Made . Name of Backup Disk: _____
4. Printed List of all files .
5. Check five (5) files at random for readability into Window 4.1 .
6. Visually scan the size of files
Size constant within 2 bytes . Yes ...No
Two distinct sizes indicating some files to 2.5 mm (2500 nm) and some to 25 or more microns (25000nm) ..Yes ...No
7. Files submitted agree with preliminary list ..Yes ...No ...N/A

Problem Files: _____

Section I completed: .

Results faxed to Manufacturer
Data released to Round Robin Group

Date: _____ **Reviewer:** _____

Section II: Data Checks

1. File Header Information

- a) Units system and thickness agree (IP for inches, usually between 0.08 and 1.0, SI for millimeters, usually between 2 and 25 Films about 0.003 inches/0.08 mm) ..Yes ...No
Thickness agrees with thickness indicated in the file name ..Yes ...No ...N/A
Files listed as same thickness agree ..Yes ...No ...N/A

Problem Files: _____

- b) Units system and conductivity agree (IP conductivity approximately 0.52, SI approximately 0.90) ..Yes ...No

Problem Files: _____

- c) Wavelength units and values agree (microns start at 0.300, nanometers start at 300) ..Yes ...No

Problem Files: _____

NFRC Optical Properties Validation - continued
Data Submission Checklist

Company Name: _____

Date: _____

2. Spectral Data:

- a) Wavelength range extends to at least 2.5 microns (2500nm) ..Yes .. No
 Note: $t_{ir}=0.0$, $emiss = 0.84$ for data only to 2.5 microns, no t_{ir} or $emiss$ entries for data out to 25 or more microns

Problem Files: _____

- b) Data free of Random Points ..Yes .. No
 Note: Any point that distinctly breaks continuity with the points on either side of it

Problem Files: _____

- c) Data free of discontinuities: ..Yes .. No
 Note: Any jump in the data with no points indicating a transition

Problem Files: _____

- d) Data free of Noise: ..Yes .. No
 i.e., irregular data beyond 2 microns (2000nm) indicating integrating sphere noise.

Problem Files: _____

Noise Level Assessment: rms percent _____ of data

. CAUTION (Acceptable Error)

. WARNING (Excessive Error)

Wavelength Range of Noise _____

Problem Files: _____

e. Characteristics of the Data

- | | | |
|---|--------|-------|
| I. Uncoated (<i>Clear, Bronze, Gray, Tinted</i>) | | |
| Samples had R1 and R2 approximately equal | ...Yes | .. No |
| II. Transmittance drop around 1.1 microns | ...Yes | .. No |
| III. Visible transmittance characteristic of glass type
(<i>Clear, Bronze, Gray, Tinted</i>) | ..Yes | .. No |
| IV. Coated samples have differences in R1 and R2 | ..Yes | .. No |
| V. Low-e samples have one side highly reflective in IR | ..Yes | .. No |
| VI. All data points greater than or equal to 0 | ..Yes | .. No |

Problem Files: _____

3. Data Wavelength Check:

- Maximum interval specifications per NFRC 300-94 met from
 300 to 2500 nm (0.3 to 2.5 microns) . Yes .. No

Problem Files: _____

Data Submission Checklist

Company Name: _____

Date: _____

Maximum interval specifications per NFRC 301 met
from 5000 to 25000 nm (5 to 25 microns) ...N/A ..Yes ...No

4. Physical Data Check:

T+R1 and T+R2 both less than or equal to 1 ..Yes ...No

Section II Completed: ..

Date: _____

Reviewer: _____

Section III: Preparation for WINDOW Library Release

1. Glass.dat list prepared and mailed ..Yes ...No Date Sent: _____

2. Manufacturer agrees with numbers ..Yes ...No

3. Manufacturer wants files displayed
in a particular form ..Yes ...No What Order? _____

4. Data Requires Compression ..Yes ...No Type of Compression:
Specpack ..
Pkzip ..
Other ..

5. Write Protect the files with
WINDOW utility program ..

Section III Completed: ..

Date: _____

Reviewer: _____

Comments:
