

Attachments Optical Properties Task Group Minutes

Thursday, June 25, 2010

2:00 P.M. – 3:00 P.M. EST

Chair: Thomas Morrissey - Hunter Douglas, Inc.

Participants:

Tom Morrissey (Chair), Stacy Germann (Staff), Mike Rubin, William du Pont, Rich Watkins, Robert Simons, Ross McCluney, Sanjiv Malkin, Maurya McClintock, Evert Bos, Jacob Jonsson, Charlie Curiya, Stephen Appert, Steve Hebeisen

1. Call to Order:

Chair called meeting to order at 2:05 P.M. EST and conducted a roll call. Anti-trust reminder was given.

2. Review and Approve Agenda:

- I. Review activities since spring conference
- II. Update on fabric database work group
- III. Update on cellular shade simulation work group
- IV. Update on standards work group
- V. New Business

3. Discussion:

The primary focus of this meeting was to review our actions/activities in preparation for the Summer Virtual Meeting. Tom Morrissey reviewed the notes from the last group meeting on 12APR2010. A reminder was given to the group that NO task group meetings would be held during the June Virtual Meeting. Only sub-committees and committees will meet. There are no pending ballots concerning Attachments Optical Properties at this time.

Mike Rubin informed the group that work documenting fabrics for the project is progressing ahead of schedule. A previous suggestion to use a student(s) for some of the redundant work has contributed to getting the initial work done quickly. Mike is open to the submission of additional fabrics. Any new fabrics submitted must be 18" X 18" FLAT MATERIAL in a light and dark color. If your fabric is not flat (i.e. cellular) you must request a special metal template from Mike to cut small pieces that will fit his equipment. Any additional questions can be reviewed directly with Mike at mdrubin@lbl.gov, or mailed to him at the address below. Use the same address for shipping your fabrics.

LBNL attention Mike Rubin
1 Cyclotron Rd., MS25A-118
Berkeley, CA 94720

The master fabric document he is maintaining is accessible via Google docs. The link for the site is:

<https://spreadsheets.google.com/ccc?key=0AsqScF9sO1hxdGIsTWxGa1E3akNmMUp4SmJMdlMyc3c&hl=en>

Mike asked the group to decide on a standardized list of fabric types. Our task group originally identified such terms when the project began. As new participants have become active with the group the terms may not have been passed on to them. The original terms are reproduced in a chart at the end of the meeting notes and can also be found on our task group site in the excel spreadsheet called Master Fabric List. If people believe additional terms should be added please bring up at future meetings or send an email soliciting feedback from the group.

Based on early review of the data LBNL has identified 4 possible characterizations results:

Normal-hemispherical
Normal incidence
Directional-hemispherical
Bi-directional

Mike suggested the group consider the Directional-Hemispherical rating for long-term consideration. This rating is being used in the EU and it would make sense to consider a parallel path. No final determination was made.

Rob Simons gave an update on the work group formulating an approach to standards. The group is using NFRC 300 as the base document for initial discussion. A skeletal outline is pending for further group review. Dr. Ross McCluney discussed a recommendation for a scope statement he submitted.

Someone described a resurrection of E903 is underway by Daryl Myers. This may help support our work. We may want to incorporate specific sections from each document concerning optical data at normal incidence and non-normal angles of incidence. The work group will look at all reference documents to be used for our best purposes.

4. New Business:

No new business was presented.

5. Adjourn Meeting:

Meeting ended at approximately 3:10 P.M. EST. It was proposed the group meet on a conference call in early August, after the July virtual meeting.

Interior and Exterior Attachments Fabric Guide for Optical Properties Measurements

Fabric Types	Fabric Attributes			
	Fiber Composition	Construction	Basis Weight (GSM)	Used in this Product Categories
Nonwovens				
Spunbond	PET/PP	Random	25 - 100	Cellular
Spunlaced	PET/PP/Cotton	Random/Parallel/Cross	40 - 80	Slat or Louver
Carded Calanedered	PET/Bi-Co	Parallel/Cross	25 - 100	Sheer
Carded Thru-Air Bonded	PET/Bi-Co	Parallel/Cross	25- 100	Pleated
Wet-laid	PET/Wood Pulp	Random	30 - 70	
Composites	PET/PP/Cotton	Random/Parallel/Cross	40 - 100	
Laminates	PET/PP/Cotton	Random/Parallel/Cross/Film		
Wovens				
Trditional Shuttle	PET	Plain, Basket, Twill, Satin	50 - 500	Cellular
Air Jet	PET	Plain, Basket, Twill, Satin	50 - 500	Sheer
Water Jet	PET	Plain, Basket, Twill, Satin	50 - 500	Pleated
Rapier	PET	Plain, Basket, Twill, Satin	50 - 500	Roller
Dobby	PET	Plain, Basket, Twill, Satin	50 - 500	Roman
Jacquard Plain	PET	Simple Jacquard	50 - 500	Drape
Jacquard Complex	PET	Compled Jacquard	50 - 500	Flat Panel
Woven Laminates	PET/Film	Plain, Basket, Twill, Satin	50 - 500	
Knits				
Warp Knits				
Tricot knit	PET	28 or 32 gauge	40 - 200	Cellular
Raschel Knit	PET	28 or 32 gauge	40 - 200	Sheer
Knit Laminates	PET/Film	28 or 32 gauge/Film	60 - 200	Drape