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Date: 2007/06/26
 Subscriber: 100046210
 PartySite: 871793
 File No: R25163
 Project No: 07SR1745844
 PD No: 07M37134
 Type: R
 PO Number:

Subject: **Procedure And/Or Report Material**

The following material resulting from the investigation under the above numbers is enclosed.

Issue

<u>Date</u>	<u>Vol</u>	<u>Sec</u>	<u>Pages</u>	<u>Revised Date</u>
2006/06/28	1	1	Revised Description Page(s) 1	2007/06/26
2007/05/31			Add New Indep Report	
2006/06/28	1		Revised Test Record 2-1,2-2	2007/06/26

Resending documents per client request.

This request is to resend documents to subscriber 100046210,

Inspections at your plant will be conducted under the supervision of Mr. Allen J. Denoo, Area Manager, Underwriters Laboratories Inc., Field Services Department, North Region, Central Midwest Area Office PO Box 2929 Parker, CO 80138. PHONE: 1-303-997-4050; FAX: 1-847-513-7736; E-MAIL: Allen.J.Denoo@us.ul.com.

Please file revised pages and illustrations in place of material of like identity. New material should be filed in its proper numerical order.

NOTE: Follow-Up Service Procedure revisions DO NOT include Cover Pages, Test Records and Conclusion Pages. Report revisions DO NOT include Authorization Pages, Indices, Section General Pages and Appendixes.

Please review this material and report any inaccuracies to our Customer Service Professional, PHONE: 1-877-ULHELPS (1-877-854-3577), FAX: 1-847-407-1395, E-MAIL: customerservice.nbk@us.ul.com, referring to the above Project and/or PD Numbers.

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NBK File

UL INSPECTION CENTER 717



DESCRIPTION

PRODUCT COVERED:

See Section General.

FACTORY LOCATION AND IDENTIFICATION:

See Section General.


MANUFACTURING PROCESS:

See Section General.

INGREDIENTS:

Manufacturer - Huntsman Chemical Corp.


Designation - Grade 40.

Marking - Shall bear the Recognized Component Mark () located on the product in proximity to the above designation.

or

Manufacturer - BASF Corp.


Designation - BF-020, BF-122, BF-222, BF-229, BF-322, BF-326, BF-327, BF-329, BF-422, BFL-020, BFL-122, BFL-134, BFL-222, BFL-322, BFL-327, BFL-422.

Marking - Shall bear the Recognized Component Mark () located on the product in proximity to the above designation.

or

Manufacturer - Nova Chemical Co.


Designation - Type M77 (A, A-HD, A-NL, B, B-HD, B-HDS, B-NL, C, C-HD or C-NL).

Marking - Shall bear the Recognized Component Mark () located on the product in proximity to the above designation.

or

Manufacturer - Cheil Industries Inc., Chemicals Div.

Designation - Type SF-200H, SF-300H, SF-400H, SF-301H, SF-401H, SF-200L, SF-300L, SF-301L, SF-400L, SF-401L

Marking - Shall bear the Recognized Component Mark () located on the product in proximity to the above designation.

FINISHED PRODUCT:

Dimensional Tolerance - The dimensions shall conform to ILLS. 1 through 14.

File R25163
Project 07NK11188

May 31, 2007

REPORT

on

FOAMED PLASTICS

Under The

CLASSIFICATION PROGRAM

AIRLITE PLASTICS COMPANY, NEBRASKA CORP.
OMAHA, NE

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DESCRIPTION

PRODUCT COVERED:

The product covered by this Report is an expanded polystyrene foamed plastic used in insulated concrete forming systems.

The product is Classified as to physical properties only.

USE:

The product is intended for use as a building material as permitted by authorities having jurisdiction.

TEST RECORD NO. 1

A review of Classifications per UL723, Tests for Surface Burning Characteristics, previously extended from Huntsman Chemical Corp., BASF Corp., NOVA Chemical Co. indicate the current product conforms to the existing Classification.

The composition of the finished material is of a proprietary nature. Data on the composition is on file at the Laboratories for use in the Follow-Up Service program.

TEST RECORD NO. 2

With authorization from Cheil Industries Inc., Chemicals Div. data was extended from R25199, to Airlite Plastics Co. for the manufacture of foamed plastic in the form of irregular shaped expanded polystyrene foamed plastic parts.

CONCLUSION

Samples of the product covered by this Report have been found to comply with the requirements and the product is judged to be eligible for Classification and Follow-Up Service. The manufacturer is authorized to use the Laboratories' Classification Marking as shown below on such products which comply with the Follow-Up Procedure and any other applicable requirements of Underwriters Laboratories Inc. Only those products which properly bear the Laboratories' Classification Marking are considered as Classified by Underwriters Laboratories Inc.

UNDERWRITERS LABORATORIES INC.
CLASSIFIED
FOAMED PLASTIC
SURFACE BURNING CHARACTERISTICS

	5 in. Maximum+ ₋
FLAME SPREAD	10 #
SMOKE DEVELOPED	300 #

- + - Installed in a thickness, or stored in an effective thickness, as indicated, for a density of 1.50 lb/ft².
- # - Flame spread and smoke developed recorded while material remained in the original test position. Ignition of molten residue on the furnace floor resulted in flame travel equivalent to calculated flame spread Classification of 140 and smoke developed Classification of over 500.

Report by:

Reviewed by:

Karen Foxx-Smith
Engineering Associate
Fire Protection Division

R. K. Laymon
Senior Staff Engineer
Fire Protection Division

TEST RECORD NO. 2

EXAMINATION OF MATERIALS:

The materials used in this investigation were produced under the observation of a representative of Underwriters Laboratories Inc., in a ready-to-use form. The composition of the finished materials is of a proprietary nature. Data on the composition is on file at the Laboratories for use in the Follow-Up Service Program.

PHYSICAL PROPERTIES:

SAMPLES

The samples submitted consisted of the following:

ASTM C578 TYPE Designation	Bead Type
II	Samsung SF401L

METHOD AND RESULTS

GENERAL

The tests were conducted in accordance with ASTM C578, Standard Specification For Preformed, Cellular Polystyrene Thermal Insulation.

DENSITY

Method - ASTM C578 Paragraph 11.2 and ASTM C303.

COMPRESSIVE RESISTANCE

Method - ASTM C578, Paragraph 11.5 and ASTM C165, Procedure A at a cross-head speed of 0.1 in./min/in. of thickness to yield or 10 percent deformation. Specimens were conditioned for 40 h at $73.4 \pm 1.8^\circ\text{F}$ and 50 ± 5 percent RH.

Specimens - Specimens measured 3 in. by 3 in. by 1 in. thick.

Results -

TYPE	Specimen No.	Specimen Density (lb/ft ³)	Compressive Resistance (psi)	ASTM C578 Minimum Reqmts. (psi)
II	1	1.58	23.9	
II	2	1.61	24.6	
II	3	1.71	26.3	
II	4	1.67	25.5	
II	5	1.70	26.0	
Avg:		1.65	25.2	15.0

FLEXURAL STRENGTH

Method - ASTM C578, Paragraph 11.6 and ASTM C203, Method 1, Procedure A with a cross-head speed of 0.2 in./min; a support span to depth ratio of 10; a support span to width ratio of 2.5; and width to depth ratio of 4. The radius of supports and loading fittings used was 5/8 in. Specimens were conditioned to constant weight at $73.4 \pm 1.8^\circ\text{F}$ and 50 ± 5 percent RH.

Specimens - Specimens measured 12 in. by 4 in. by 1 in. thick.

Results -

TYPE	Specimen No.	Specimen Density (lb/ft ³)	Breaking Load (lb)	Flexural Strength (psi)	ASTM C578 Minimum Reqmts. (psi)
II	1	1.61	15.7	57.7	
II	2	1.60	15.1	55.6	
II	3	1.53	15.7	55.5	
II	4	1.61	15.7	55.3	
II	5	1.53	14.8	55.3	
Avg:		1.58	15.4	55.9	35.0