



ACCREDITED



CONSTRUCTION MATERIALS TECHNOLOGIES

LABORATORY TEST REPORT

Report for: Dymotek
7 Main St., P.O. Box 440
Ellington, CT 06029

Attention: Tom Trueb

Product Name: Roof Top Blox™	Manufacturer: Dymotek
Project No.: DYMO-002-02-01	Source: Dymotek
Date Received: January 23, 2013	Dates Tested: March 13 – September 19, 2013

Purpose: Determine the weathering properties of Roof Top Blox™ with the requirements found in the International Building Code, Section 1504.6: Physical Properties.

Test Methods: Testing was conducted in compliance with ASTM G 155-00a, G 155-04a, G 155-05: *Standard Practice for Operating Xenon Arc Light Apparatus for Exposure of Non-Metallic Materials*. Product samples were exposed to xenon arc weathering for a duration of 2,000h. Tensile testing was conducted in accordance with ASTM D 638-03: *Standard Test Method for Tensile Properties of Plastics*. Type I specimens were utilized; the speed of testing was 2.0 in./min.

Sampling: Specimens were excised from the Roof Top Blox™ injection molded polypropylene component for testing.

DYMO-002-02-01 Rev 1PRI Accreditations: IAS TL-189; State of Florida TST5878; Metro-Dade 11-0429.05; LADBS TA24819; CRRC

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Results:

Specimens examined under 5x magnification after 2,000h of xenon arc accelerated weathering did not exhibit any surface changes, such as delamination, cracking, checking, crazing, erosion, or chalking that might affect performance. Tensile strength (ASTM D 638) increased by 2.9% after material was exposed to 2,000h of xenon arc weathering.

Table 1: ASTM D 638 Tensile Properties

Specimens	Max Force (lbf)	Max Stress (psi)	Elongation at Break (%)
Unexposed Control			
1	135	2,747	53
2	129	2,675	41
3	134	2,691	44
4	142	2,273	46
5	138	2,690	34
Average	136	2,707	44
Std.Dev.	5	31	7
Exposed (After 2,000h of Xenon Arc Exposure)			
1	156	2,910	39
2	147	2,758	32
3	165	2,882	42
4	159	2,706	41
5	146	2,667	26
Average	155	2,785	36
Std.Dev.	8	107	7

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Statement of Compliance:

Testing was conducted in accordance with ASTM G 155-00a, G 155-04a, G 155-05: *Standard Practice for Operating Xenon Arc Light Apparatus for Exposure of Non-Metallic Materials*. Tensile testing was conducted in accordance with ASTM D 638-03: *Standard Test Method for Tensile Properties of Plastics*. The laboratory test results presented in this report are representative of the material supplied.

Signed: _____

Zachary R. Priest, P.E.
Director

Report Issue History:

Issue #	Date	Pages	Revision Description (if applicable)
Original	09/19/2013	3	NA
Rev 1	10/08/2013	3	Updated purpose

END OF REPORT

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