

IMPACT TESTING ON SAFETY GLAZING MATERIAL

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SAINT-GOBAIN PERFORMANCE PLASTICS - SOLAR GARD LLC
 4540 Viewridge Avenue
 San Diego, California 92123

Report No: C2390.03-122-42
 Test Date: 09/12/12
 Report Date: 09/17/12
 Revision 2: 05/27/14

Sample ID: Solar Gard® Armorcoat® 8 mil Solar 6 mm Film-backed Transparent Glass

Samples Provided By: Saint-Gobain Solar Gard – Largo, Florida

Lab Temperature: 21°C

Duration of Pre-Conditioning @ 20° - 23°C: 24 Hours

Test Size: 876 mm wide by 1938 mm high

All test specimens were destroyed by test or by our personnel and have been disposed of as trash.

Note: Impacted from film side only with film clamped in frame.

Impact Tests: (EN 12600:2002)

Impact Level	Drop Height	Spec. No.	Test Standard	Thickness (mm)	Observations	Fragment Weight (grams)	Performance Classification
3	190 mm	1	EN 12600	5.83	Did not break	--	--
		2		5.82	No openings	--	--
		3		5.80	Did not break	--	--
		4		5.84	Did not break	--	--
2	450 mm	1	EN 12600	5.83	No openings	57	--
		2		5.84	No openings	--	--
		3		5.80	No openings	78	--
		4		5.84	Did not break	32	--
1	1200 mm	1	EN 12600	5.86	No openings	42	1 (B) 1
		2		5.78	No openings	54	1 (B) 1
		3		5.81	No openings	34	1 (B) 1
		4		5.83	No openings	27	1 (B) 1

*Acceptance Criteria = 24.95 x lite thickness in mm.

Film Thickness:

Measured Sample	Overall Thickness (mm)	Glass Only Thickness (mm)	Film Thickness (mm)	Film Designation
Level 3 Specimen #1	5.83	5.71	0.12	8 mil Solar Armorcoat®

Conclusion: Meets EN 12600 classification 1(B)1.

Detailed drawings, data sheets, representative samples of test specimens (if sampled), a copy of this report, or other pertinent project documentation will be retained by Architectural Testing, Inc. for a period of four years from the original report date. At the end of this retention period, such materials shall be discarded without notice and the service life of this report will expire. Results obtained are tested values and were secured by using the designated test methods. This report does not constitute certification of this product nor an opinion or endorsement by this laboratory. It is the exclusive property of the client so named herein and relates only to the specimen(s) tested. This report may not be reproduced, except in full, without the written approval of Architectural Testing, Inc.

For ARCHITECTURAL TESTING, INC.:

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Revision Log

<u>Rev. #</u>	<u>Date</u>	<u>Page(s)</u>	<u>Revision(s)</u>
0	09/17/12	N/A	Original report issue
1	09/18/12	1	Corrected location of manufacturer to San Diego, California
2	05/27/14	1	Changed customer address on report and location of where samples were manufactured. Original reviewer no longer with Architectural Testing.