



Approved Compatible Interlayer and Film Materials for Use in Contact with the Coated Surface of MSVD Sungate® and Solarban® Solar Control Low-e Flat Glass Products

(Sungate 400, Solarban 60, Solarban z50, Solarban 67, Solarban 70XL, Sungate 400VT, Solarban 60VTII, Solarban z50VT, Solarban 67VT, Solarban 70XLVT, Solarban 72VT, Solarban z75VT, Solarban 90VT, Solarban R100VT)

The table below contains the list of approved compatible interlayer and film materials for use in laminates where the material is in direct contact with the coated surface of the above MSVD *Sungate* and *Solarban* Low-e Coated Glass Products. Upon successful completion of the Vitro Certified™ Laminator program audit, network members will be extended a Low-E Coated Glass Warranty for the above listed coated glass products that are incorporated into laminates utilizing an approved interlayer material. The **MSVD coating must be edge deleted** and all provisions of the Vitro Certified™ Laminator program adhered to. Additional interlayer or film materials will be added to the list when approved through the appropriate test protocol for evaluating compatibility of the material with MSVD *Sungate* and *Solarban* Low-e Coated Glass Products.

Interlayer or Film Material		Compatibility Testing Year Completed					
Manufacturer	Brand / Trade Name*	Solarban 60, & Solarban z50 Products	Solarban 70XL Products	Sungate 400 & Solarban R100 Products	Solarban 72 Products	Solarban 67 & Solarban z75 Products	Solarban 90VT Products
Eastman	Saflex® (Q series, R series, S series & Vanceva®) PVB	2004	2007	2010	2011	2014	2016 ⁺
Eastman	Saflex® Structural & Storm (DG, DM, HP and VS02)	2005	2007	2010	2011	2014	2016
Kuraray	Trosifol® Clear (formerly Butacite® B5 PVB)	2005	2008	2010	2011	2014	2016
Kuraray	SentryGlas®	2005	2008	2010	2011	2014	2016
Kuraray	SentryGlas® Expressions™**	2008	2008	2010	2011	2014	2016
Kuraray	Trosifol® UltraClear BG R10, R15, R20	2013	2013	2013	2013	2014	2016
Kuraray	Trosifol® HR100, ES, SC+, XT SP, and Colour™	2013	2013	2013	2013	2014	2016
Chang Chun Petrochemical	WINLITE® PVB	2016	2016	2016	2016	2016	2016
Everlam™	Everlam™ PVB	2016	2016	2016	2016	2016	2016



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Table Notes & Exceptions:

*All calipers and colors. Eastman products may be combined with each other in order to achieve multiple application benefits such as safety, security, sound and solar performance.

** Must be properly laminated with the ink being encapsulated between two layers of Butacite® B5 PVB so that the ink is not in direct contact with the MSVD Low-E coating.

+ Physical testing included Eastman Chemical RA-41, RB-71, & DG-41 interlayers

Note 1: Only the MSVD Products listed at the top of this document are approved for lamination with the coating adjacent to the interlayer. Any MSVD product not listed at the top of this document is not approved for lamination with the coating adjacent to any interlayer or film material at this time.

Note 2: The document explaining the protocol for evaluating interlayer or film materials compatibility with MSVD Coatings is available to interlayer manufacturers from the Flat Glass Technical Services Department.

Saflex and Vanceva are trademarks of Solutia Inc., a subsidiary of Eastman Chemical Company. Butacite and SentryGlas are trademarks of E.I. du Pont de Nemours and Company. SentryGlas® ionoplast interlayer is part of the Trosifol® Structural & Security product portfolio. Trosifol is a trademark of Kuraray, Inc. WINLITE is a trademark of Chang Chun Petrochemical. Everlam™ is a trademark of Everlam NV.



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History Table		
Date Revised	Revision	Description
Sep 2005	Rev. 0	Original Publication of TD - 512
Apr 2006	Rev. 1	Added VS02 per March 2005 Solutia Letter
Mar 2007	Rev. 2	Added Solarban 70XL & Solarban 70XLT as approved with Solutia Materials Listed Above
Jan 2008	Rev. 3	Added Solarban 70XL & Solarban 70XLT as approved with DuPont Materials Listed Above
Nov 2008	Rev. 4	Added SentryGlas® Expressions™ per November 2008 DuPont Letter
Oct 2010	Rev. 5	Added Sungate 400 & Solarban R100 as approved with all materials and changed vinyl name to DuPont SentryGlas
Apr 2011	Rev. 6	Added Solarban 72VT as approved with all materials
Jun 2013	Rev. 7	Added TROSIFOL Materials per test report and sample review. Removed Sungate 100 and Solarban 80.
Feb 2014	Rev. 8	Added Solarban 67, 67VT and z75VT as approved with all materials and removed Sungate 100VT.
May 2016	Rev. 9	Added WINLITE material per testing results. Updated Eastman (Solutia) name and product names. Included all Saflex R series in approval per letter.
July 2016	Rev. 10	Added Everlam material per letter certifying it is the same as European Butacite® PVB
Oct 2016	Rev. 11	Added Solarban 90VT as an approved low-e coating for use in laminates with all previously approved interlayer materials.
Oct 2016	Rev. 12	Updated to Vitro Logo and format
May 2017	Rev. 13	Updated Eastman product nomenclature to properly reflect the different formulations. Updated Kuraray product nomenclature and trademark information, updated Solarban 90VT approval information in the table to reflect all interlayers were approved in 2016.

This document is intended to inform and assist the reader in the application, use, and maintenance of Vitro Architectural Glass Products. Actual performance and results can vary depending on the circumstances. **Vitro makes no warranty or guarantee as to the results to be obtained from the use of all or any portion of the information provided herein, and hereby disclaims any liability for personal injury, property damage, product insufficiency, or any other damages of any kind or nature arising from the reader's use of the information contained herein.**