

LAMINATE SAFETY BACKING DATA SUMMARY

ITEM REF:	RT60TP
FILM:	POLYPROPYLENE
ADHESIVE:	EMULSION ACRYLIC
COLOUR:	CLEAR
TOTAL THICKNESS:	76.5 µm
TENSILE STRENGTH:	68.0 N/10mm
ELONGATION AT BREAK:	140%
APPLICATION TEMPERATURE RANGE:	0° C to 65°C

This self-wound, Ultra Clear Bi-axially Orientated Polypropylene Mirror Safety Backing Film is used to help protect against injury from shards of glass in the event of breakage. The product can be applied by hand or with automated laminating equipment and gives excellent adhesion to mirror and back painted glass.

RT60TP is fully tested to BS EN 12600 Class 2B2 for frontal impact.

Note: The data and recommendations are given in good faith, based on practical experience, but without warranty. The customer should carry out their own tests to confirm the usefulness of the product for the application under consideration. This technical data could have tolerances up to 5%.

British and European Safety Standards – using Mirrorworld Safety Backing

BS EN 12600 has now superseded BS 6206 as a European wide performance standard for impact Safety Window Film for glass.

Designed to be a more ‘modern’ test it provides much the same performance levels as BS6206 (see below).

Classifications within BS EN 12600 (in order of highest performance are:

- Class 1B1
- Class 2B2
- Class 3B3

In order to be classified as an impact safe material glass is subjected to this Safety Standard Test. This test defines the level at which glass will “break safe”.

Call 0333 800 8181 for more information.

The test incorporates the dropping of a weight from three heights onto a standard sized pane of glass. The point at which the glass breaks forms part of its classification.

The standard defines three drop heights:

- 190mm, 450mm, 1200mm.
- Class 3, 190mm drop height, is equivalent to an adult pushing hard against the glass or a child running into it.
- Class 2, 450mm drop height, is equivalent to rather more than an adult walking into a glass door, but less than a determined attempt to force a way through by running at it.
- Class 1, 1200mm drop height, is for testing glass for critical applications.

Type B breakage is characterised by the fragments being held together, this is the typical breakage mode for glass with a safety film applied or laminated glass.

IMPORTANTLY materials that are classified as safety material meeting the performance criteria of BSEN 12 600 **MUST** carry an identifiable mark showing the level of safety achieved during test.

In basic principles the table below shows a comparison between BS EN 12600 and BS6206 Classifications:


BS EN 12600 – BS6206

1B1 – Class A

2B2 – Class B

3B3 – Class C





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WINTech Test Report/Certificate No: R160050
Date of Testing: 3rd August 2012

**P & S Converting, Unit 2 The Britannia Trade Centre, Ryehill Close,
Lodge Farm, Northamptonshire, NN5 7UA**

4mm Silvered Mirror Safety Film RT-60-TP, has Passed the test requirements of BS EN 12600 'Glass in Building – Pendulum Test – Impact Test Method and Classification for Flat Glass', and is therefore classified as 2B2.

SAMPLE REFERENCE No.	ALLOWABLE BREAKAGE MODE	PERFORMANCE CLASSIFICATION	DIMENSIONS OF TEST PIECES	RESULT
1	B	2	876 x 1938	Pass (did not break)
2	B	2	876 x 1938	Pass (did not break)
3	B	2	876 x 1938	Pass (did not break)
4	B	2	876 x 1938	Pass (did not break)
3	B	2	876 x 1938	Pass (did not break)
4	B	2	876 x 1938	Pass (did not break)
5	B	2	876 x 1938	Pass (did not break)
6	B	2	876 x 1938	Pass (did not break)

These results are valid only for the conditions under which the tests were conducted.

Product Definition: Asymmetrical Product.

All Test Pieces were fully clamped in the test frame during testing.

When tested by the method given in clause 4 in BS EN 12600 each test piece shall either not break or break as defined in the following way:
Numerous cracks appear but no shear or opening is allowed within the test piece through which a 76mm diameter sphere can pass when a maximum force of 25 N is applied. Additionally if particles are detached from the test piece up to 3 minutes after impact, they shall, in total, weigh no more than a mass equivalent to 10,000 mm² of the original test piece. The largest single particle shall weigh less than the mass equivalent to 400 mm² of the original test piece.

Tested By: _____


Report Compiled By: J Hollis
Technical Assistant

Technically Approved By: M Watt
Quality & Technical Manager

Date of Issue: 15th August 2012

D Potts and A Price of Wintech Engineering Ltd

Signed: 

Signed: 

This report and the results shown are based upon information, samples supplied and tests referred to above. The results obtained do not necessarily relate to samples from the production line of the above named company and in no way constitute any form of representation or warranty as to the performance or quality of any products supplied or to be supplied by them. Wintech Engineering Ltd or its employees accept no liability for any damages, charges, cost or expenses in respect of or in relation to any damage to any property or other loss whatsoever arising either directly or indirectly from the use of this report.

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OBEEX

CORTEX® ULTIMATE surface protection



**M1000SBF
MIRROR
SAFETY BACKING FILM**

Cortex M1000SBF

Clear Mirror Safety Backing Film

Cortex M1000SBF is a clear 100 micron safety film with very high adhesion for a permanent bond. Mirror safety backing film is applied to the back of the mirror to retain the fragments together if the mirror shatters. This will significantly reduce the risk of injury. Cortex M1000SBF conforms to BS EN 12600 Class 2B2 (Impact).

Easy to apply and ready to use, this product is cost effective and will make your mirrors much safer both to you and the public.



Contact us for more information about **Cortex M1000SBF CLEAR MIRROR SAFETY BACKING FILM** or any of the other products in our range.



protecting your **SUCCESS**



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Technical Data

Roll Length: 100 Linear Metres

Rolls Widths: 100mm - 1200mm

180° Peeling Strength	900 g/25mm
Thickness	100 microns ± 6% mm
Width Tolerance	± 5 mm
Backing Elongation at Break	MD $\bar{\Delta}$ \geq 200%, CD $\bar{\Delta}$ \geq 200%
Backing Material	LDPE
Adhesion	Acrylic Pressure Sensitive Adhesive
Shelf Life	6 months

The above information is given in good faith and for guidance only. The user shall be responsible for determining that the performance of the product is sufficient for his application. The quoted values are based on averages and should not be taken as maximum or minimum values for specific purposes.

