



# Test Report



TESTING

Report No	BG001105
Client	3M United Kingdom 3M House PO Box 1 Market Place Bracknell Berkshire RG12 1JU
Authority & date	Clients Purchase Order L66457 dated 10 May 1994
Items tested	Flat glass for use in buildings
Specifications	BS 6206:1981
Results	See Page 2
Prepared by	 P Parkins
Authorized by	 K J Frewin
Issue date	7 <sup>th</sup> JUNE 1994.
Conditions of issue	This Test Report is issued subject to the conditions stated in the current issue of <i>Test Leaflet 1</i> 'General conditions relating to acceptance of testing'. The results contained herein apply only to the particular sample/s tested and to the specific tests carried out, as detailed in this Test Report. The issuing of this Test Report does not indicate any measure of Approval, Certification, Supervision, Control or Surveillance by BSI of any product. No extract, abridgement or abstraction from a Test Report may be published or used to advertise a product without the written consent of the Director, BSI Testing, who reserves the absolute right to agree or reject all or any of the details of any items of publicity for which consent may be sought.

**TEST AND EXAMINATION OF FLAT GLASS FOR USE IN BUILDINGS SUBMITTED AS  
A DIRECT COMMISSION**

**INTRODUCTION**

At the request of 3M United Kingdom the flat glass samples detailed below, were tested and assessed against requirements of BS 6206:1981 as indicated on the following pages of this Report. This request was made on a Purchase Order L66457 dated 10 May 1994. It is emphasised that assessments have not been made against the other clauses of the Specification.

This Report only relates to the actual samples which have been tested and assessed.

The result of the tests recorded in this Report refer only to the samples submitted (plastics film bonded to glass sheets) which were produced under factory controlled conditions. It should not be assumed that a similar performance will be achieved when the same plastics film is bonded to glass which is already installed in a building.

**TEST ITEMS**

- A) 8 off 6.0 mm Film backed glass 1930 x 865 mm (Film SH7 CLARL)
- B) 16 off 6.0 mm Film backed glass glass 1930 x 865 mm (Film SCLARL 400)

**SUMMARY OF RESULTS**

The test samples were tested to the method described in BS 6206:1981.

The results of which are as follows:

TEST ITEMS	CLASS	ASSESSMENT
A)	Drop Height 1219 mm	Fail
B)	Drop Height 457 mm	Pass
B)	Drop Height 1219 mm	Fail

**TESTING AND EXAMINATION**Clause No5. Impact5.3 Impact test

Type - Asymmetric clear film backed glass 1930 x 865 mm  
 Thickness - 6.00 mm Nominal  
 Film - SH7 CLARL measured thickness = 0.19 mm

<u>Sample No</u>	<u>Impact No</u>	<u>Side Impacted</u>	<u>Result of Impact</u>	<u>Assessment</u>
<u>Drop height 1219 mm</u>				
1	1	Glass	Hole larger than specified gauge	Fail
2	2	Glass	Pointed Protrusions	Fail
7	7	Glass	Broken safely	Pass
8	8	Glass	Delamination*	Fail
3	3	Film	Delamination**	Fail
4	4	Film	Broken safely	Pass
5	5	Film	Broken safely	Pass
6	6	Film	Broken safely	Pass

Delamination:- Weight of 10000 mm<sup>2</sup> = 150 g maximum

Weight of 4400 mm<sup>2</sup> = 66 g maximum

\*Weight of Particles (g) = 867 g

Weight of Single Particle (g) = 226 g

\*\*Weight of Particles (g) = 1313 g

Weight of Single Particle (g) = 390 g

**TESTING AND EXAMINATION****Clause No**5. **Impact**5.3 **Impact test**

Type - Asymmetric clear film backed glass 1930 x 865 mm  
 Thickness - 6.00 mm Nominal  
 Film - SCLARL 400 measured thickness = 0.20 mm

<u>Sample No</u>	<u>Impact No</u>	<u>Side Impacted</u>	<u>Result of Impact</u>	<u>Assessment</u>
------------------	------------------	----------------------	-------------------------	-------------------

Drop height 457 mm

1	1	Glass	No breakage	Pass
2	3	Glass	Broken safely	Pass
3	4	Glass	No breakage	Pass
4	6	Glass	Broken safely	Pass
5	7	Film	Broken safely	Pass
6	8	Film	Broken safely	Pass
7	9	Film	Broken safely	Pass
8	10	Film	Broken safely	Pass

Drop height 1219 mm

1	2	Glass	Broken safely	Pass
3	5	Glass	Broken safely	Pass
9	11	Glass	Delamination	Fail
10	12	Glass	Hole larger than specified gauge	Fail
11	13	Film	Broken safely	Pass
12	14	Film	Broken safely	Pass
13	15	Film	Broken safely	Pass
14	16	Film	Broken safely	Pass

Delamination:- Weight of 10000 mm<sup>2</sup> = 150 g maximum

Weight of 4400 mm<sup>2</sup> = 66 g maximum

Weight of Particles (g) = 1619 g

Weight of Single Particle (g) = 438 g