

Rehau Polymers (Pty) Ltd
Att: Mr. Nico Blaser
PO BOX 924
Edenvale
1610

Your ref : Order No: FJ76382CS
Our ref : Er432
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N° : 2116/Er432
Page : 1 of 3
Date : 23-01-2012

**TESTING TO SABS 1553-1: 2007
PVC-U WINDOW AND DOOR FRAMES OR EXTERNAL USE
Final REPORT**

1 SUMMARY

A full specification test was performed. The sample tested comply with the requirement of SABS 1553-1:2007 with respect to the test conducted. Refer to Clause 4 for the detail of the test performed.

2 DESCRIPTION OF SAMPLE

The following sample was submitted by Mr N Blaser of Rehau Polymers (Pty) Ltd.

<u>SABS Sample No.</u>	<u>Quantity</u>	<u>Sample Description</u>
Er432	2x2m	U-PVC Window profile frame Marked: REHAU 63021239 07 101219 50013

3 SAMPLE SUBMITTED

The sample was received in good condition and suitable for testing.

Date sample received : 21-07-2011
Test commencement date : 25-08-2011
Test completion date : 23-01-2012

4 TEST REQUESTED

To test the sample submitted with the requirement of SABS 1553-1: 2007.

5 METHODS OF TESTING

Methods used according to SABS 1553-1: 2007.

6 CONDITIONING AND TEST ENVIRONMENT

23 ± 2°C , 50 ± 5% relative humidity.

7 SUB CONTRACTING OF LABORATORIES

All tests were performed by: Rubber & Plastics Laboratory of SABS Commercial (Pty) Ltd.

8 RESULTS

PROPERTY	REQUIREMENT	RESULTS
Vicat softening point, °C	75 minimum	87
Flammability – Vertical burning test	a) No specimen shall burn with flaming combustion of more than 10 seconds after b) Shall not have a total flaming combustion time exceeding 50 seconds for the 10 flame c) Shall not have any specimen that burns with flaming of glowing combustion up to the d) Shall not have specimens with glowing combustion that persists for more than 30	Complies Complies Complies Complies
Flammability – Oxygen index, %	40 minimum	> 40
<u>Tensile strength, MPa</u>		
a) at yield	35 minimum	45
b) modulus of elasticity, GPa	2.2 minimum	32
Tensile impact resistance, KJ/m ²	180 minimum	409.8
<u>Profile dimensions, mm</u>		
- Length	Nominal value not given	2000
Wall thickness		
- Thickness less than 2.5mm	Nominal value not given	2.4
- Thickness of 2.5mm and over	Nominal value not given	2.6

This test was performed by Testing and Conformity Services (Pty) Ltd, an affiliate of the SABS. This report relates only to the specific sample(s) tested as identified herein. It does not imply SABS approval of the quality and/or performance of the item(s) in question and the test results do not apply to any similar item that has not been tested. (Refer also to the complete conditions printed on the back of official test reports.)

PROPERTY	REQUIREMENT	RESULTS
External surface dimensions		
- Height of profile	Nominal value not given	60.1
- Width of profile	Nominal value not given	40.1
Stability of profile surface to heat	Shall suffer no visible blistering, cracking or splitting of the surface.	Complies
Thermal reversion, %	2.0 maximum of original test length 0.4 maximum difference in reversion	1.3 0.1
Resistance to impact at low temperature	No test specimen of a major profile shall suffer cracking through the entire wall thickness of the face side of the profile impacted in the test	Complies
Resistance to dichloromethane	Shall show no sign of disruption, delamination or disintegration anywhere in its wall	Complies
Resistance to Laboratory weathering	a) shall show no visible deterioration of the surface and, in particular, chalking, cracking or blistering	Complies
	b) Darkening, Yellowing or browning clearly apparent on visual inspection c) Loss of more than 20% of the original tensile impact resistance(i.e the minimum tensile impact resistance requirement shall be 144KJ/m ²)	Complies 245
Weld factor	0.7 minimum	No butt-weld visible

9 **Disposition**

All samples will be disposed of, if not collected within 3 months from date of this report.


T Nkabinde
TEST OFFICER: RUBBER AND PLASTICS


CM Sibiyá
MANAGER: RUBBER AND PLASTICS & PAINTS AND SEALANTS

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