

# AWTA PRODUCT TESTING

Australian Wool Testing Authority Ltd - trading as AWTA Product Testing  
A.B.N. 43 006 014 106  
1st Floor, 191 Racecourse Road, Flemington, Victoria 3031  
P.O. Box 240, North Melbourne, Victoria 3051  
Phone (03) 9371 2400 Fax (03) 9371 2499

## TEST REPORT

CLIENT : EVERBRIGHT ROOFING SYSTEMS P/L  
8 SANTA MONICA PARADE  
ILLUKA  
PERTH WA 6028

TEST NUMBER : 7-565040-CW  
DATE : 03/03/2009  
ORDER NUMBER : 2919

SAMPLE DESCRIPTION Clients Ref: "Everbright E610"  
Roofing panels (triple skinned tube extrusion co-extruded  
with 0.05mm thick ultra violet filter) Colour: Clear  
Nom. Comp: polycarbonate Nom. Density: 1200kg/m2  
Nom. Total Thickness: 74mm

AS/NZS 3837:1998 Method of Test for Heat and Smoke Release Rates  
for Materials and Products Using an Oxygen  
Consumption Calorimeter

Results:-

	1	Specimen 2	3	Mean	
Average Heat Release Rate	58.1	53.5	35.5	49.0	kW/m2

Average Specific extinction area (according to Specification C1.10 of the Building Code of Australia)	534.5	571.0	480.8	528.8	m2/kg
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BCA Classification:-  
Group Classification 3 3 3  
(according to Specification A2.4 of the Building Code of Australia)

Test orientation: Horizontal

	1	Specimen 2	3	Mean	
Irradiance	50	50	50	50	kW/m2
Exhaust flow rate	24	24	24	24	l/s
Time to sustained flaming	179	186	193	186	s
Test duration	2036	2392	3036	2488	s

Heat release rate curve on attached sheets which form part of this report

Peak heat release after ignition	170.7	217.8	184.4	191.0	kW/m2
Average heat at 60s	123.4	161.4	138.0	140.9	kW/m2
Release rate at 180s	132.5	141.7	123.2	132.5	kW/m2
After ignition at 300s	100.5	107.5	87.2	98.4	kW/m2
Total heat released	107.9	118.0	100.9	108.9	MJ/m2
Average effective heat of combustion	24.0	25.3	22.6	24.0	MJ/kg

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-Chemical Testing of Textiles & Related Products : Accreditation No. 983  
-Mechanical Testing of Textiles & Related Products : Accreditation No. 985  
-Heat & Temperature Measurement : Accreditation No. 1356

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APPROVED SIGNATORY

MICHAEL A. JACKSON B.Sc.(Hons)  
MANAGING DIRECTOR

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Initial thickness	45.0	45.0	45.0	45.0	mm
Initial mass	52.2	52.6	52.3	52.4	g
Mass remaining	12.0	10.9	12.2	11.7	g
Mass percentage pyrolysed	77.0	79.3	76.7	77.0	%
Mass loss	40.2	41.7	40.1	40.7	g
Average rate of mass loss	2.4	2.1	1.6	2.0	g/m2.s

These test results relate only to the behaviour of the product under the conditions of the test, they are not intended to be the sole criterion for the assessment of performance under real fire conditions

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( END OF REPORT )

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