

TEST REPORT

DESCRIPTION OF SAMPLE

The following Cresto® brand solid surfacing material test specimens (as shown in Figure 1) were received for testing.

Nominal specimen dimensions	Quantity	Date received
300mm x 150mm x 12mm	3pcs	12 November 2004
250mm x 250mm x 12mm	4pcs	12 November 2004
200mm x 200mm x 12mm	6pcs	12 November 2004
76mm x 25mm x 12mm	6pcs	12 November 2004
64mm x 13mm x 12mm	12pcs	12 November 2004
50mm x 50mm x 12mm	45pcs	12 November 2004
50mm x 25mm x 12mm	4pcs	12 November 2004
8mm x 8mm x 12mm	2pcs	12 November 2004
ASTM D638, Type III	8pcs	12 November 2004
300mm x 150mm x 12mm	2pcs	30 November 2004

TEST METHODS (AS SPECIFIED BY THE CLIENT)

PS 18 : 1966

International Association of Plumbing and mechanical officials – Material and property standard for cultured marble lavatory

1. Density

ASTM D792: 2000

Standard Test Methods for Density and Specific Gravity (Relative Density) of Plastics by Displacement

Nominal specimen dimensions : 50mm x 25mm x 12mm

No of determinations : 2

2. Impact Resistance

PS 18. Clause 4.1

Nominal specimen dimensions : 250mm x 250mm x 12mm

Dropped height : 6"

No of determinations : 2

3. Barcol Hardness

PS 18. Clause 5.4

Nominal specimen dimensions : 250mm x 250mm x 12mm

No of determinations : 40

4. Oven Test for Cracking and Crazing

PS 18. Clause 5.5

Nominal specimen dimensions : 200mm x 200mm x 12mm

Test condition : 74± 2°C for 10 days

No of determinations : 2

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5. Water Absorption

PS 18. Clause 4.4

Nominal specimen dimensions	: 76mm x 25mm x 12mm
Conditioning of test specimens	: 50± 2°C for 24hr
Immersion condition	: 23± 2°C for 24hr
Reconditioning of test specimens	: 50± 2°C for 24hr
No of determinations	: 3

6. Stain

PS 18. Clause 5.8

Nominal specimen dimensions	: 250mm x 250mm x 12mm
Test condition	: 23± 2°C for 10 days
No of determinations	: 1

7. Washability

PS 18. Clause 5.9

Nominal specimen dimensions	: 300mm x 150mm x 12mm
No of cycles	: 40000
No of determinations	: 2

8. Cigarette Test

Nominal specimen dimensions	: 150mm x 150mm x 20mm
Duration	: 3 min
No of determinations	: 1

9. Izod Impact Strength

ASTM D256 : 1997

Standard Test Methods for Determination the Izod Pendulum Impact Resistance of Plastics

Nominal specimen dimensions	: 64mm x 12mm x 12mm
Capacity of pendulum	: 2J
No of determinations	: 9

10. Tensile Properties

Standard Test Methods for Tensile Properties of Plastics

Nominal specimen dimensions	: ASTM D638, Type III
Initial gauge length	: 50mm
Length of grip separation	: 115mm
Crosshead speed	: 5mm/min
No of determinations	: 5

11. Coefficient of Thermal Expansion by Thermomechanical Analysis

ASTM D631 : 2000

Standard Test Method for Linear Thermal Expansion of Solid Materials by Thermomechanical Analysis

Temperature Range	: Ambient to 130°C
Load	: 0.02N
Scanning rate	: 5°C/min

12. Chemical Resistance

Test condition	: 23± 2°C for 24hr
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