

Date: 03-June-2020

ISSUED To,
SIMPLON CERAMIC PVT.LTD

S.NO- 247 P-2 , Opp CNG Pump , Jetpar Road ,
At - BELA (Rangpar) , MORBI - 363642 .

SAMPLE DISCRIPTION : CERAMIC DIGITAL WALL TILES

300×600 mm

SAMPLE RECEIVED DATE :- 28 May -2020

TEST DESIRED

A DIMENSION & SURFACE QUALITY

- A.1 DEVIATION IN LENGTH & WIDTH
- A.2 THICKNESS
- A.3 STRAIGHTNESS OF SIDES
- A.4 RECTANGULARITY
- A.5 SURFACE FLATNESS
- A.6 SURFACE QUALITY



B PHYSICAL PROPPERTY:

- B.1 WATER ABSORPTION
- B.2 MODULES OF RUPTURE (M.O.R)
- B.3 SCRACTH HARDNESS OF SURFACE (Moh"S)
- B.4 CRAZING RESISTANCE
- B.5 SURFACE ABRASION

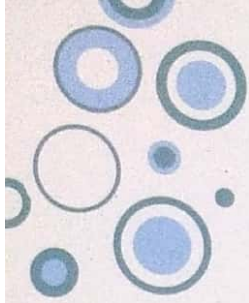
C THERMAL PROPERTIES

- C.1 COFEFFICINT OF LINEAR THERMAL EXPANSION
- C.2 THERMAL SHOCK RESISTANCE

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For, MICROTECH LAB.



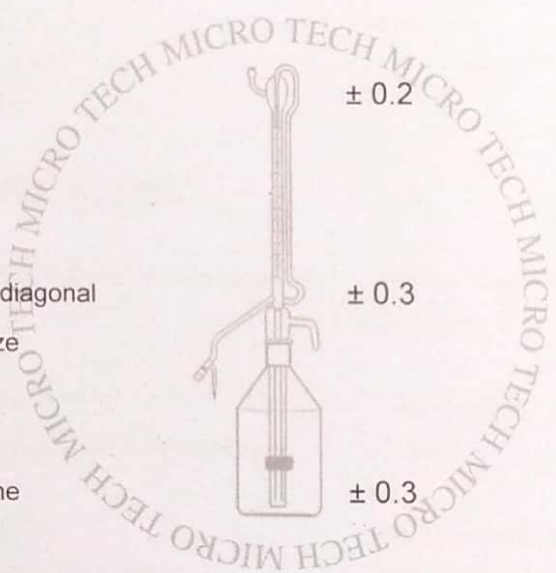


Test Report

A DIMENSION & SURFACE QUALITY

Test method: IS 13630 (PART-1)

	Require	Result
A.1 DEVIATION IN LENGTH & WIDTH	± 0.2	Ave ± 0.06
A.2 THICKNESS	± 5.0	Ave ± 1.0
A.3 STRAIGHTNESS OF SIDES	± 0.15	Ave + 0.02 Ave - 0.01
A.4 RECTANGULARITY	± 0.2	Ave + 0.02 Ave - 0.03
A.5 SURFACE FLATNESS		
(a) Center curvature		
Center curvature related to diagonal calculated from the work size	± 0.3	Ave + 0.24 Ave - 0.05
(b) Edge curvature		
Edge curvature related to the corresponding work size	± 0.3	Ave + 0.30 Ave - 0.05
(c) Warpage		
warpage related to diagonal calculated from the work size	± 0.3	Ave + 0.25 Ave - 0.00
A.6 SURFACE QUALITY		
Minimum 95 % of the tile should be free from visible defects	95%	95%



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B PHYSICAL PROPERTY:

Test method : IS 13630 (PART-2)

B.1 WATER ABSORPTION %

1	16.82
2	16.12
3	15.98
4	16.45

Require:
Average > 10 %

Average 16.34%

B-2 MODULES OF RUPTURE (M.O.R) N/mm2

Test method : IS 13630 (PART-6)

1	18.4
2	17.9
3	18.6
4	18.3

Require:
Minimum 15.0 N/mm2

Average 18.3 N/mm2

B-3 SCRATCH HARDNESS OF SURFACE (Moh"S)

Test method : IS 13630 (PART-13)

Result : 5.0 Moh"s

Require : Minimum - 3

B-4 CRAZING RESISTANCE

Test method : IS 13630 (PART-9)

4 CYCLE PASS at 7.5 kg/cm2 steam pressure

Result PASS

B-5 SURFACE ABRASION

Test method : IS 13630 (PART-11)

No effects in mass loss, colour change
gloss change of tiles in 12000 revolutions

Result
Class-3

C THERMAL PROPERTIES

Test method : IS 13630 (PART-4)

C-1 COEFFICIENT OF LINEAR THERMAL EXPANSION:

Require	Result
MAX 9×10-6	5.97×10-6

C-2 THERMAL SHOCK RESISTANCE:

Test method : IS 13630 (PART-5)

110 to 115 °C & 10 cycle

Require	Result
10 Cycle	PASS

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