



NATIONAL RESEARCH CENTRE
TAHRIR St. DOKKI, CAIRO, EGYPT
Central Unit For Analysis And
Scientifical Services (CUASS)
Material Test Lab.

المركز القومي للبحوث
الدقي القاهرة جمهورية مصر العربية
وحدة التحاليل و الخدمات العلميه المركزيه

Report No : MO1 9710072021

Date 24/07/2021

Client : MOROSWOOD

Authority & Date : 24 / 07 / 2021

Items Tested : WPC (Wood Plastic Composite)

Test Carried By : Dr. Abou El Fotouh Abd El Hakim

Dear Sirs.,

With correspondence to your request concerning the testing samples of WPC (Artificial wood).

We would like to inform you that the all following needed test were carried out which namely:

TEST LIST FOR WPC PRODUCTS

No	Test item	Standard
1	Density test according to	ISO 1183-1
2	Water absorbtiontest (48Hrs)	EN 317
3	Thickness Swelling testTh (48Hrs)	EN 317
4	Tensile Strenght test	ISO 527-1
5	Charrpy Impact Strenght test	ISO 179-1
6	Bending Strenght test	ISO 178
7	WeatheringResistance test (50Hrs)	ISO 4892-4
8	Fire test	BS 476-7
9	Linear thermal expansion test	ASTM D696



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MOROSWOOD TEST RESULTS

TEST LIST FOR WPC PRODUCTS

No	Test item	Mean Value
1	Density test according to	1.298
2	Water absorbtiontest (48Hrs)	0.278%
3	Thickness Swelling testTh (48Hrs)	2.488
4	Tensile Strenght test	23.20 Mpa
5	Charpy Impact Strenght test	4.4 Kj/m2
6	Bending Strenght test	39.9 Mpa
7	Weathering Resistance test (50Hrs)	0.885
8	Fire test	Cfl-S1
9	Linear thermal expansion test	42.5 x 10 ⁻⁶ /C

Head of Directors of the board
of Central Department for
Scientifical Analysis & Tests

PROF. DR. MOSTAFA ZAKI MOSTAFA

