

PROPERTY TEST METHOD VALUE

Sr.No.	Test	Test Method	Unit	Results Obtained
1	Vicat softening temperature at 1kg.	ASTM D 1525	°C	93.5
2	Vicat softening temperature at 1.8Mpa	ASTM D 648	°C	69.2
3	Vicat softening temperature at 66 PSI.		°C	77.2
4	Vicat softening temperature at 364 PSI.		°C	69.2
5	Flammability	UL-94	---	Math with vo
6	Rate of burning	ASTM D 635	---	The flame front did not reach the 25 mm of mark
7	Tensile strength at break	ASTM D638	MPa	30.63
8	Elongation at break		%	130
9	Flexural strength	ASTM D 790	MPa	73.3
10	Resistance to chemical (10% H2SO4 for 24Hrs.)	ASTM D 543	---	No visible change observed
11	Density	ASTM D 792	gm/cc	1.56
12	Water absorption (change in mass, 24 Hrs.)	ASTM D 570	%	0.07
13	Charpy impact	ASTM D 6110	KJ/m ²	8.10
14	Thermal resistance	At 70°C/72Hrs.	---	No effect
15	Chemical resistance	In 18% HCL/24Hrs	---	No effect
16	Chemical resistance	In 20% NaOH/24Hrs	---	No effect
17	Chemical resistance	In Saturated CaCl ₂ /24Hrs	---	No effect

Corrosion Resistance :

DION sheets can resist the chemical corrosion of acid, alkali, salt etc. for a long time. the test proves that there is no chemical reaction when dipped in salt, alkali etc.

Heat & Sound Insulation :

The coefficient of heat conductivity is 0.104 W/m. °C, which is about 1/3 of clay tile, 1/5 of 10-mm-thick cement tile, and 1/2000 of 0.5-mm-thick color-coated steel tile. It can well absorb the noise when influenced by Strom, and windstorm etc.

PRODUCT FEATURES



Environmental protection & energy conservation:

It is a kind of environmental-friendly, energy conservation and recycling building material popular in developed and developing countries.



Pressure Prevention :

DION sheets has very good load bearing performance. no damaged when 150kg is evenly loaded with support distance being 750mm for 2.0mm thickness.



Cost effective & Non-Carcinogenic :

Cost effective in installation and save construction up to 70% overlapping waste doesn't exceed 8% High utilization efficiency up to 95% and its good for life fully protected from health hazards.



Light Weight :

The weight is 3.6kg per square meters (2mm). Belonging to light structural material, it can effectively reduce the load of the building framework materials. In the mean time, it is easy to be handled and lifted, which reduces the construction cost.



Good water resistance :

The surface material of DION is compact and doesn't absorb water without the problem of water penetration by micro pores. the single sheet is big and there is very few joint on the roof. The connecting point is tightly connected; therefore the sheet has outstanding water resistance performance.



Flame Retardant :

Self extinguishing the main body material polyvinyl chloride resin and its chemical performance determine that it is difficult to be burned.

APPLICATIONS

DION is an optimum choice for roofing & cladding in civil and industrial construction as per the efficiency and benefits it provides. It can be used in many applications both exterior and interior. i.e. industrial places, commercial places, residential places & Agricultural firms etc like **Factory Building, Warehouses, Market, Vehicle Parking Sheds, Farm House, Water Resorts, Cottages, Chemical Industries, Animal House, Construction House, Schools, Colleges, Hostels, Sheltered Walkways, Security Guard Shelters, roof extensions, summer huts cycles** etc.



↑ 125000 sq.ft. (approx.) project done in the year 2011
3.0mm Thickness for Roof
2.0mm Thickness for Wall

↑ After 10 years, 2021
No Corrosion & No Other damages

BENEFITS OF DION UPVC MULTILAYER SHEET
Save 4 times replacement and new sheet installations cost of metallic sheet



BEFORE METALLIC SHEET

AFTER REPLACED WITH DION UPVC SHEET

PROJECT TYPE: GALVANIZING PLANT
COVER AREA: 180000 SQ.FT. (APPROX.)
ISSUE TYPE: HIGHLY CORROSION
METAL SHEET LIFE: MAX. 2 YEARS

REPLACE MATERIAL: DION UPVC SHEET
THICKNESS: 3.5MM
MAX. LENGTH: 39 FEET.
LIFE EXPECTATION: 5 CYCLES OF METAL SHEET WITH PROPER INSTALLATION GUIDELINES



Note: The white is our raw material color. The other colors are derived from pigmentation and pigment are subject to sunlight fading.

Above all information are only for good reference, DION is not responsible for any loss from miss uses or misunderstanding of instruction. Company has power to change in specification at any time.

For more details, please visit our website.



DION INCORPORATION

Manufacturer : uPVC MULTILAYER ROOFING SHEETS

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DION Quality & Aesthetics - A perfect combination to match your roofing needs.

