

NATURAL FIBER COMPOSITE BOARD
MADE FROM AGRICULTURAL WASTE-RISE HUSK
NO ADDED UREA FORMALDEHYDRE



Physical & Technical Properties

Test	Method	Unit	Result
DENSITY	ASTM D792	Kg/CBM	800.349
WATER ABSORPTION AFTER 2 HRS	IS : 2380	%	0.02
WATER ABSORPTION AFTER 24 HRS	IS : 2380	%	0.12
THICKNESS SWELLING AFTER 2 HRS	IS : 2380	%	0.06
MODULUS OF RUPTURE - AVERAGE	IS : 2380	N/mm ²	14.5
MODULUS OF RUPTURE - MINIMUM INDIVIDUAL	IS : 2380	N/mm ²	14.4
MODULUS OF ELASTICITY - AVERAGE	IS : 2380	N/mm ²	1327
MODULUS OF ELASTICITY - MINIMUM INDIVIDUAL	IS : 2380	N/mm ²	1290
SCREW WITHDRAWAL - FACE	IS : 2380	N	2252
SCREW WITHDRAWAL - EDGE	IS : 2380	N	1409
TENSILE STRENGTH	ASTM D638	MPa	7.6
COMPRESSION STRENGTH	ASTM D695	MPa	40.2
ELONGATION @ BREAK	ASTM D638	%	2
CHARPY IMPACT STRENGTH	ASTM D6110	KJ/m ²	6.25
HEAT DEFLECTION @ 0.45MPA	ASTM D648	°C	64.45
SOFTENING TEMPERATURE @ 1 KG	ASTM D1525	°C	72.5
VOC EMISSIONS	EPA : 5035A (by GCMS)	Mg/KG	Below detectable limit
TEST FOR TERMITE RESISTANCE	IS 4833		No sign of termite attack
TEST FOR FUNGAL RESISTANCE	IS 4873		No sign of fungal attack
TEST FOR BORER RESISTANCE	IS 4873		No sign of borer attack