

PHYSICAL AND MECHANICAL PROPERTIES

Sr.No.	Properties	Unit	Plain Particle Board IS: 3087 (Grade II)	Treelogy Plain Particle Board (Grade II)	Prelaminated Particle Board IS: 12823 (Grade II)	Treelogy Prelaminated Particle Board (Grade II)
1	Density	Kg/m ³	500 - 900	✓	500 - 900	✓
2	Density Variation	%	+/- 10		+/- 10	
3	Moisture Content	%	5 to 15	✓	5 to 15	✓
4	Water Absorption 2 Hrs. 24 Hrs.	%	40 80	✓ ✓	15 30	✓ ✓
5	Thickness swelling 2 Hrs.	%	12	✓	8	✓
6	Swelling (expansion) in water after 24 Hrs. soaking Thickness Length (2 Hrs. for Particle Board) Width (2 Hrs. for Particle Board)		0.5 0.5	✓ ✓		
7	Swelling due to Surface Absorption	%	9	✓		
8	Modulus Rupture Upto 20mm thickness Above 20mm thickness	N/mm ²	11 11	✓ ✓	11 11	✓ ✓
9	Tensile Strength Perpendicular to Surface Upto 20mm thickness Above 20mm thickness	N/mm ²	0.3 0.3	✓ ✓	0.3 0.3	✓ ✓
10	Screw Withdrawal Strength Face Edge	N	1250 700	✓ ✓	1250 750	✓ ✓
11	Abrasion Resistance Type I Type II Type III	Revolution			450 250 80	✓

TYPES OF PARTICLE BOARDS MANUFACTURED BY US:

- Plain Particle Board in Grade I and Grade II (Exterior and Interior Grades)
- Pre-laminated Particle Board in Grade I and Grade II
- Veneered Particle Board in Grade I and Grade II
- One Side Pre-laminated Particle Board
- Both Side Balancing White Pre-laminated Board

STANDARD AVAILABLE THICKNESS OF TREELOGY PARTICLE BOARDS ARE:

- 9mm • 12mm • 17mm • 25mm