

MexyTech Technical Data Sheet

| PROPERTY | Test Method | VALUE | UNIT |
|---|--|--|--------|
| 1. Density | ASTM D792-2008 METHOD B | 1.285 | G/CM3 |
| 2. Flexural Modulus | ASTM D790-07E1 | 3070 | Mpa |
| 3. Flexural Strength | ASTM D790-07E1 | 38 | Mpa |
| 4. Tensile Strength | ASTM D638-08 | 21.08 | MPa |
| 5. Water Absorption | ASTM D570-98 | 0.18 | % |
| 6. Linear Thermal Expansion Coefficient | ASTM E831-06 | 49.82 | UM/M°C |
| 7. IZOD Impact Strength | ASTM D4812-06 | 79 | J/m |
| 8. Hardness | ASTM D2240-05 | D/76/1 | |
| 9. Curling strength | ASTM D790 | ≥12 | Mpa |
| 10. Horizontal Burning | UL 94-1996REV.9:2006 SECTION 7 | 22 | MM/MIN |
| 11. Curling Flexible Module | ASTM D790 | ≥1600 | Mpa |
| 12. Compression Strength | ASTM D143 | ≥30 | Mpa |
| 13. Grip Nail Strength | LY/T 1613-2004 | 1732 | N |
| 14. Nail Withdrawal Test | ASTM D1761 | 802 | psi |
| 15. Creep Recovery Test | ASTM D7032-SECTION 5.4 | 82.66 | % |
| 16. Hot Distorted Temperature | ASTM D648 | ≥100 | °C |
| 17. UV Resistance (Light Resistance / Xenon-Arc Exposure) | ISO105-02:2000/Amd.2:2000(E), ISO 105-A02:1993 Cor2:2005, Exposure 720 hours | Grey 4-5 grey scale Brown 4 grey scale Mahogany 4-5 grey scale Dark Walnut 4-5 grey scale | / |
| 18. Thermal Shock Test | IEC 60068-2-14 Na: 1986, 5 cycles | No signs of cracking, warping, chipping and discoloration | / |
| 19. Slip Resistance (Using a Horizontal Pull Slipmeter) | ASTM F 609 | Slip Index Reading 6.63 | / |
| 20. Material Composition | / | Natural Fibre 60% Recycle Plastic 35% Additive 5% | / |
| 21. Mould Resistance | ASTM F609 | First Grade | / |
| 22. Reaction to fire | EN 13501-1 | Class Efl | |
| 23. Thermal Conductivity | EN 12524 or EN 12667 | 0.19 | W/mk |