

MECHANICAL PROPERTIES OF WOOD-EX

PROPERTIES	TEST METHOD	RESULTS	REMARKS
Tensile strength MPa	ISO 527	29	
Elongation at break %	ISO 527	2.4	
Modulus of Rupture MPa	BS 373	60	3 point bending
Modulus of elasticity MPa	BS 373	2440	
Stress at proportional limit MPa	BS 373	50	
Compression strength parallel to grain MPa	BS 373	56	
Compression strength perpendicular to grain MPa	BS 373	21	
Impact strength kJ/m ²	BS 373	0.8	3 point bending
Water absorption %	ISO 82	<0.1	50 x 30 x 10
Coefficient of thermal expansion 1/°C	DIN 62-53491	5 X 10 ⁻⁵	-
Toxic Gas Factor - Only two detected from eight tested	SNES 714CO ₂ , CO, HCl, HCN, H ₂ SO ₂ , NOX, AMMONIA	0.7	Carbon dioxide
		2.6	Carbon monoxide
			0 - 3 low toxicity
UV stability	ASTM E383-B	Accepted	No measureable change mechanical properties
Vicat softening point	ISO 306	92oC	-

These test results are indicative test and can be altered to suit various applications by changing the Specific Gravity of a given profile