

TECHNICAL DATA OF TECH-WOOD

Rev. Nr. 01

Measured properties	Result	Unit	Standard	Test report
Flexural strength	73	N/mm ²	NEN-EN 310	SHR report 20.289
Modulus of elasticity (profile direction)	7230	N/mm ²	NEN-EN 310	SHR report 1.731-2
Compression strength (profile direction)	74.7	N/mm ²		SHR report 1.731-2
Tensile strength (profile direction)	72.8	N/mm ²		SHR report 1.731-2
Modulus of elasticity (width direction)	4100	N/mm ²		SHR report 1.731-2
Compression strength (width direction)	67.3	N/mm ²		SHR report 1.731-2
Tensile strength (width direction)	59.5	N/mm ²		SHR report 1.731-2
Shear modulus in the plane of the profile (20° C)	2000	N/mm ²		SHR report 1.731-2
Shear strength in the plane of the profile (20° C)	33.7	N/mm ²		SHR report 1.731-2
Charpy impact strength (unnotched, 20° C)	7.6	KJ/m ²	ISO 179	SHR report 1.731-2
Izod impact strength (unnotched, 20° C)	8.3	KJ/m ²	ISO 180	SHR report 1.731-2
Swelling behaviour	2.4	%	NEN-EN 317	SHR report 20.289
Shrinkage- and swelling behaviour				
From 65% to 35% RH, profile direction	-0.02	%	NEN-EN 318	SHR report 20.289
From 65% to 35% RH, thickness direction	-0.31	%	NEN-EN 318	SHR report 20.289
From 65% to 85% RH, profile direction	0.07	%	NEN-EN 318	SHR report 20.289
From 65% to 85% RH, thickness direction	1.7	%	NEN-EN 318	SHR report 20.289
Through-thickness tensile strength (as moulded)	1.8 (glue failure)	N/mm ²	NEN-EN 319	SHR report 20.289
Through-thickness tensile strength (after cyclic test)	1.9 (glue failure)	N/mm ²	NEN-EN 321	SHR report 20.289
UV sensitivity	no defects	~~	SKH publ. 97-04	SHR report 20.289
Water tightness	500 (seams: 300)	Pascal	NEN 2778	SHR report 20.289
Water tightnes after cyclic loading	400 (seams: 300)	Pascal	NEN 2778	SHR report 20.289
Impact test (pendulum test with 30 kg sand-filled bag)	no deformation/fracture		NEN-EN 949	SHR report 20.289
Impact test (pendulum test with 1 kg steel ball)	no deformation/fracture		NEN-EN 950	SHR report 20.289
Panel behaviour after cyclic loading	no damage/fracture		NEN 3665	SHR report 20.289
Fire behaviour classification				
Flame-extension class, untreated	Class 3		NEN 6065	TNO-report 2001-CVB-R03052
Flash-over class, untreated	Class 3		NEN 6065	TNO-report 2001-CVB-R03052
Contribution to fire propagation, untreated	Class 3		NEN 6065	TNO-report 2001-CVB-R03052
Smoke density, untreated	10.3	m ⁻¹	NEN 6066	TNO-report 2001-CVB-R03052
Flame-extension, treated with Flameguard WL coating	Class 2		NEN 6065	TNO-report 2001-CVB-R003053
Flash-over, treated with Flameguard WL coating	Class 2		NEN 6065	TNO-report 2001-CVB-R003053
Contribution to fire propagation, treated with Flameg.WL	Class 2		NEN 6065	TNO-report 2001-CVB-R003053
Smoke density, treated with Flameguard WL coating	2.7	m ⁻¹	NEN 6066	TNO-report 2001-CVB-R003053
Coefficient of linear thermal expansion	13.1	10 ⁻⁶ -/K		SHR report 1.731-2
Coefficient of heat conduction (λ - value)	0.28	W/mK	NEN 1068	SHR report 2233
Adhesion of coating	Gt-0 to Gt-1			Reports of Akzo and Remmers