



# TECHNICAL DATA TWINSON MATERIAL

TEST	METHOD	VALUE	UNIT
Vicat softening point	EN ISO 306/B50	85 – 95	°C
Density	ISO 1183	1.41	kg/dm <sup>3</sup>
Impact resistance	ISO 6603-2	3 – 6	kJ/m <sup>2</sup>
Brinell hardness 3000 N	EN 1534	120	N/mm <sup>2</sup>
Flexural E-modulus	EN 310	5000 – 7000	N/mm <sup>2</sup>
Breaking force	EN 310	5000	N
Elongation at break	EN 310	1	%
Bending strength	EN 310	38	N/mm <sup>2</sup>
Water absorption 24 hours	EN 317	0.2 – 0.6	%
Water absorption 28 days	EN 317	3.5	%
Linear expansion	ISO 11359-2	0.021	mm/m.°C
Ageing	ISO 4892-2/A	< 4	dE (@ 2GJ/m <sup>2</sup> )
Cataplasma humidity	ISO 9142 annex E2	OK	visual
Heat reversion	EN 479	< 0.1	%
Deviation after cyclic treatment (EN 321)	Flexural E-modulus	- 6.78	%
	Braeking force	+ 3.99	%
	Elongation at break	+ 19.61	%
	Bending strength	- 4.19	%
	swelling	+ 0.14	%
Withdrawal of screws	EN 13446	64	N/mm <sup>2</sup>
Durability class	EN 350	1	class