

2.4. Dossier technique

Les produits Deceuninck Twinson satisfont aux normes de qualité sévères et sont réalisés suivant des procédures conformes à la certification ISO 9001.

		prEN 15534-1	based on	specific property	unit	value
physical properties	density	§ 6.1	ISO 1183-1/A		kg/dm ³	1.42 ± 0.05
	moisture content	§ 6.2	ISO 16979		%	< 0.2
	HDT	§ 6.3	ISO 75-1/A		°C	70 ± 2
mechanical properties	vicat softening point	---	ISO 306/B50		°C	82 ± 2
	impact resistance	§ 7.1.1	ISO 179-1fU	charpy	kJ/m ²	> 5
	tensile properties	§ 7.2	ISO 527-2/1B	tensile modulus tensile strength strain at break	MPa MPa %	5000 ± 10% > 35 1.3 ± 10%
durability	flexural properties	§ 7.3.1	ISO 178	flexural modulus bending strength bending at break	MPa MPa %	5000 ± 10% > 55 1.5 ± 10%
	artificial weathering (300 hours WOM)	§ 8.1.1	ISO 4892-2	discoloration impact retention	dE %	< 20 < 20
	moisture resistance (28 days)	§ 8.3.1	EN 317	mass increase length increase width increase thickness increase	% % % %	< 8 < 0.6 < 1.5 < 4
thermal properties	linear thermal expansion (-20 °C ... +60°C)	§ 9.1	ISO 11359-2	length direction width direction thickness	10 ⁻⁶ m ⁻¹ k ⁻¹ 10 ⁻⁶ m ⁻¹ k ⁻¹ 10 ⁻⁶ m ⁻¹ k ⁻¹	20 - 25 45 - 50 55 - 65
	thermal conductivity	---	ISO/CD 22007-2	room temperature	W/m.K	0.2 - 0.3
burning behaviour	oxygen index	§ 10.1	ISO 4589-2		%	> 20
	epiradiator	---	NF P92-501		class	M4
	kleinbrenner	---	NBN S21-203 DIN 4102-1		class class	A4 B2

MATERIAL CHARACTERISTICS

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PRODUCT RELATED CHARACTERISTICS		prEN 15534-1	based on	specific property	unit	value
mechanical properties	impact resistance	§ 7.1.2.1	EN 477	falling mass	J	6 - 7
	durability	natural weathering (1 year Bando)	ISO 877-2	discoloration	dE	< 20
impact retention				%	< 20	
boiling test		ISO 1087-1	bending strength retention	%	< 20	
			mass increase	%	< 8	
thermal properties	heat reversion	§ 9.2	length increase	%	< 0.6	
			width increase	%	< 1.5	
	heat build-up	§ 9.3	thickness increase	%	< 4	
			heat reversion	%	< 0.2	
			heat build-up	°C	< 40	
burning behaviour	single flame source	§ 10.2.1	ISO 11925-2		pass	OK
	single burning item	§ 10.2.2	EN 13823		class	D s2 d0

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