

Premium flat 167 Twinson (P 9576)

(formerly O-Wall)

System properties

deceuninck

2.4 Technical file

2.4 Technical file

Deceuninck Twinson products meet strict quality standards and are manufactured in accordance with established ISO 9000 quality management system procedures.

MATERIAL CHARACTERISTICS								
	physical properties	density	prEN 15534-1	based on	specific property	unit	value	
		moisture content	§ 6.1	ISO 1183-1/A		kg/dm³	1.42 ± 0.05	
		HDT	§ 6.2	ISO 16979		%	< 0.2	
			§ 6.3	ISO 75-1/A		°C	70 ± 2	
		vicat softening point	—	ISO 306/B50		°C	82 ± 2	
		impact resistance	§ 7.1.1	ISO 179-1fU	charpy	kJ/m²	> 5	
	mechanical properties	tensile properties	§ 7.2	ISO 527-2/1 B	tensile modulus	MPa	5000 ± 10%	
					tensile strength	MPa	> 35	
					strain at break	%	1.3 ± 10%	
		flexural properties	§ 7.3.1	ISO 178	flexural modulus	MPa	5000 ± 10%	
	durability	artificial weathering (300 hours WOM)	§ 8.1.1	ISO 4892-2	bending strength	MPa	> 55	
					bending at break	%	1.5 ± 10%	
					discoloration	dE	< 20	
		moisture resistance (28 days)	§ 8.3.1	EN 317	impact retention	%	< 20	
					mass increase	%	< 8	
					length increase	%	< 0.6	
	thermal properties	linear thermal expansion (-20 °C ... +60 °C)	§ 9.1	ISO 11359-2	width increase	%	< 1.5	
					thickness increase	%	< 4	
					length direction	10 ⁻⁶ K ⁻¹	20 - 25	
						width direction	10 ⁻⁶ K ⁻¹	45 - 50
						thickness	10 ⁻⁶ K ⁻¹	55 - 65
	burning behaviour	thermal conductivity	—	ISO/CD 22007-2	room temperature	W/m.K	0.2 - 0.3	
		oxygen index	§ 10.1	ISO 4589-2		%	> 20	
		epiradiator	—	NF P92-501		class	M3	
			—	NBN S21-203		class	A4	
		kleinbrenner	—	DIN 4102-1		class	R2	

date: 01/12/2011
version: v3

PRODUCT RELATED CHARACTERISTICS

PRODUCT RELATED CHARACTERISTICS						
mechanical properties		prEN 15534-1	based on	specific property	unit	value
impact resistance		§ 7.1.2.1	EN 477	falling mass	J	6 - 7
durability		§ 8.2	ISO 877-2	discoloration	dE	< 20
				impact retention	%	< 20
				bending strength retention	%	< 20
		boiling test	§ 8.3.3	ISO 1087-1	mass increase	%
length increase	%				< 0.6	
width increase	%				< 1.5	
thickness increase	%				< 4	
thermal properties		§ 9.2	EN 479		%	< 0.2
heat build-up		§ 9.3	ASTM D4083		°C	< 40
burning behaviour		§ 10.2.1	ISO 11925-2		pass	OK
		§ 10.2.2	EN 13823		class	D s2 d0

date: 01/12/2011
version: v3