

Testing

Technical data of DEBO® Exterior Compact Laminate

Properties	Value	Unit	Standard
Specifications, Dimensional Tolerances			
Thickness	2.0 ≤ t < 3.0mm	: ±0.20mm	mm(max,) Test method (EN438-2:2005 Clause no.5)
	3.0 ≤ t < 5.0mm	: ±0.30mm	
	5.0 ≤ t < 8.0mm	: ±0.40mm	
	8.0 ≤ t < 12.0mm	: ±0.50mm	
	12.0 ≤ t < 16.0mm	: ±0.60mm	
	16.0 ≤ t < 20.0mm	: ±0.70mm	
	20.0 ≤ t < 25.0mm	: ±0.80mm	
	25.0mm ≤ t	: to be agreed between supplier and customer. (T=nominal thickness)	
Flatness	2.0 ≤ t < 6.0mm	: 8.0mm	mm/m(max,) Test method (EN438-2:2005 Clause no.9)
	6.0 ≤ t < 10.0mm	: 5.0mm	
	10.0 ≤ t	: 3.0mm	
		(T=nominal thickness)	
Physical Properties			
Density weight	≥1350	kg/m ³	ISO1183
>Thickness 6mm	8,7	kg/m ²	ISO1183
>Thickness 8mm	11,6	kg/m ²	ISO1183
>Thickness 10mm	14,5	kg/m ²	ISO1183
>Thickness 12mm	17,5	kg/m ²	ISO1183
Material Properties			
Density weight	≥1350	kg/m ³	ISO1183
Flexural strength	≥100	Mpa	EN 438
Modulus of elasticity	≥10000	Mpa	EN 438
Tensile Strength	≥70	Mpa	EN 438
Scratch resistance	≥3	Rating	EN 438
Resistance to crazing	≥4	Rating	EN 438
Face screw-holding	≥5000	N	ISO13894
Water vapour permeability	Wet cup:110,dry cup 250	u	ISO12572
Resistance to cigarette burns	≥3	Rating	EN 438
Abrasion Testing	144.5	mg	EN 438
Thermal conductivity	0.23	W/mK	EN 438
Light-fastness and weather resistance			
Artificial weathering	≥4	Rating	EN ISO 4892-2 3000h
UV-light resistance	≥4	Rating	EN ISO 4892-2 1500h
Reaction to fire (on request)	Type FR=12mm Euroclass B-s1,do		EN 13501-1
Release of formaldehyde	Class E1		
Factory Production Control (FPC)	ISO9001, ISO14001, OHSAS18001		