

# Material Performance of DEBO Exterior Compact

Properties	Value	Unit	Standard
<b>Specifications, Dimensional Tolerances</b>			
Thickness	2.0 ≤t < 3.0mm :±0.20mm 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)	mm(max,)	Test method (EN 438-2:2005 Clause no.5)
Flatness	2.0≤t < 6.0mm :8.0mm/m 6.0≤t < 10.0mm :5.0mm/m 10.0mm≤ t 3.0mm/m (T=nominal thickness)	mm/m(max,)	Test method (EN 438-2:2005 Clause no.9)

## Physical Properties

Density weight	≥1350	kg/m <sup>3</sup>	ISO1183
> Thickness 6mm	8,7	kg/m <sup>2</sup>	ISO1183
> Thickness 8mm	11,6	kg/m <sup>2</sup>	ISO1183
> Thickness10mm	14,5	kg/m <sup>2</sup>	ISO1183
> Thickness 12mm	17,5	kg/m <sup>2</sup>	ISO1183

## Material Properties

Density weight	≥1350	kg/m <sup>3</sup>	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

## Fire Classification

Reaction to fire (on request)	Type FR=12mm Euroclass B-s1,d0	EN 13501-1
Release of formaldehyde	Class E1	
Factory Production Control (FPC)	ISO9001, ISO14001, OHSAS18001	