

PHYSICAL AND MECHANICAL PROPERTIES FOR (140mm x 24mm Deck Profile)

Property	Based	Method	Remark	Typical Value
Density	CEN/TS 15534	EN ISO 1183		1,2 g/cm ³
Bending strength	CEN/TS 15534	EN 310		11 N/mm ²
Falling mass impact	CEN/TS 15534	EN 477	+ 23°C	No break (>30)
		EN 477	- 20°C	No break (>15)
Surface Hardness (Brinell)	CEN/TS 15534	EN 1534		25 N/mm ²
Point load capacity		EN 1533		2500 N
Fire Class	CEN/TS 15534	EN 13501-1		Dfl
Reaction to fire tests	CEN/TS 15534	EN ISO 11925-2	Whether ignition occurs	No
		EN ISO 11925-2	Whether the flame tip reaches 150mm above the flame application point	No
		EN ISO 11925-2	presence of flaming droplets/particles which cause ignition of the filter paper	No
1 hour Thermal Expansion at 100°C	CEN/TS 15534	DIN EN 479	Thermal expansion found	% 0.3
		DIN EN 479	Differential Thermal expansion found	% 0.0
Water Absorption after keeping in water for 24 hours	Volume	CEN/TS 15534	DIN EN 317	No volumetric change
	Mass		DIN EN 317	< 2,0
Water Absorption after keeping in with salt water for 24 hours	Volume	CEN/TS 15534	DIN EN 317	No volumetric change
	Mass		DIN EN 317	< 2,0
Durability of wood and wood-Based products	Against Fungus	CEN/TS 15534	EN 350-1	Resistant
	Against Termite		EN 350-1	Resistant
	Against insect larvae		EN 350-1	Resistant

For tests 140mm x 24mm (14024) type profile is used

The values above are characteristic values from quality tests and therefore not for strength calculations in the service ability state.

All products are result of extensive research and development. Laboratory continuously monitor and assess Arline product quality at our own R&D Laboratory.