PHYSICAL AND MECHANICAL PROPERTIES FOR ARLINE COMPOSİTE

(14024 & 24140 Models Deck Profile)

Property	Based	Method	Remark		Typical value
Density	CEN/TS 15534	EN ISO 1183			1,12 -1,25 g/cm3
Bending Strength	CEN/TS 15534	EN 310			39 Mpa
Linear thermal expansion coefficient (between 60 °C and -20 °C)	CEN/TS 15534	DIN 53752			0,10 mm / m°C
Water Absorption After keeping in water for 24 hour	CEN/TS 15534	DIN EN 317	Volume		No Volumetric Change
			Mass		> 2 %
Dimensional stability and water absorption after 28 days immersion in normal water (23 °C)	CEN/TS 15534	DIN EN 317	Water absorption		4%
			Thickness swelling		1,5%
			Expansion in Width		0,7%
			Expansion in Length		0,3%
Slip Resistance	CEN/TS 15534	CEN/TS 15676	Dry	A Surface	69.3
				B Surface	46.0
			Wet	A Surface	55.0
				B Surface	21.0
Flexural Modulus	CEN/TS 15534	EN 310			4.500 - 4.800 Mpa
Tensile Strength	CEN/TS 15534	EN ISO 527-2			15 - 16 Mpa
Impact Strength	CEN/TS 15534	EN ISO 179-2			20 - 30 J/M
Brinell Hardness	CEN/TS 15534	EN ISO 868			80 - 85 Mpa
Creep Recovery Rate	CEN/TS 15534	EN 16659			> 82 %
Fire Class	CEN/TS 15534	EN 13501-1			Dfı
Fire Resistance	CEN/TS 15534	EN ISO 11925-2 t= 15s -20s	Whether the flame tip reaches 150mm above the flame application point		No
			Whether ignition occurs		No
			presence of flaming droplets/particles which cause ignition of the filter paper		No
Durability Of Wood And Wood Based Products	CEN/TS 15534	ISO EN 350-1	Against Fungus		Resistant
		ISO EN 350-1	Against Termite		Resistant
		ISO EN 350-1	Against insect larvae		Resistant

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

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