

# MATERIAL'S FEATURES

## Mechanical properties

Elasticity (bending)	UNI EN ISO 178	@23 °C / @73 °F @65 °C / @149 °F
Yield strenght (flexural)	UNI EN ISO 178	@23 °C / @73 °F @65 °C / @149 °F
Water absorbtion and humidity	ASTM D1037	absorption 0,07%
Dynamic- Mechanical analysis of transition temperature	ASTM D4065/95	78.8 °C / 173.8 °F
Linear thermal expansion coefficient (from -10 °C to 70 °C) (from 14 °F to 158 °F)	TMA ASTM E 831/2006	longitudinal 46,9 x10 <sup>-6</sup> m/(m°C) trasversal 48 x10 <sup>-6</sup> m/(m°C)
Tensile strenght and tensile strenght after accelerated weathering (exposure to xenon lights)	ASTM D638-10 (tensile test) ASTM G155-050	difference after 2 months of exposure ~5,21% difference after 3 months of exposure ~6,9% (meet the requirements to comply with Miami Dade and Florida Building Code 2014)

## Reaction to fire

Flammability	UL94 AS 3959-2009	V-0 Class BAL-29
Flame spread index Smoke developed index	ASTM E84	Class A
Ignition temperature	ASTM D1929	476 °C / 890 °F
Average critical radiant flux of floor	AS ISO 9239 ASTM E648	≥ 11 kW/m <sup>2</sup> > 1,03 W/cm <sup>2</sup> (class I as per NFPA 101)
Ignitability, flame propagation, heat release and smoke release	AS/NZS 1530.3:1999	Ignitability (0-20) = 8 Spread of Flame (0-10) = 0 Heat Evolved (0-10) = 0 Smoke Developed (0-10) = 7

## Chemical and biological features

Evaluation of the action of microorganisms (scale from 0 to 5)	EN ISO 846:97	Test result: 1
Heavy metal content (Pb, Ge, Cr, Hg)	GB18584-2001 GB18580-2001	< 0,5 ppm
Formaldehyde emission	EN 717-2:1994	0,1 mg HCHO/(m <sup>2</sup> h)

## Surface characteristics (only for Aeternus)

Surface resistance to slippage while wearing footwear (brushed finish)	DIN 51130 (06/2004)	R12
Surface resistance to slippage while wearing barefoot (brushed finish)	DIN 51097 (1992)	A+B+C
Flooring slip resistance (Pendulum test)	AS 4663-2013	Dry: 98 Wet: 70

The values shown are indicative and not binding. Test reports available upon request.  
The natural aging of the material and temperature variations may cause deviations from the values indicated above.  
The product is protected by a warranty in line with legal requirements: for more information see the SPECS on [www.woodn.com](http://www.woodn.com)