



Lumber Technical Data sheet

Material Properties:

- Electrically non-conductive
- Fire behaviour: Fire Class B2 (DIN 4102)
- Pressure resistant
- Density: approx. 0.93 g/cm³
- Low thermal conductivity, the thermal conductivity value is about 0.23 [W/mK]
- Continuous operating temperature: - 20 to + 50 °C
- Waterproof (hydrophobic)
- Resistant to oils, alkalis, acids and seawater
- Resistant to micro-organisms
- UV-resistant
- High splinter resistant
- Fully pigmented

Technical data

Testing:	Standard DIN EN ISO	Unit	Measured value	Quality 1	Measured value	Quality 3
				Standard Deviation 10 measurements		Standard Deviation 10 measurements
Tensile modulus of elasticity	527-1	MPa	405.20	94.60	742.20	61.50
Breaking stress	527-2	MPa	12.06	2.29	9.80	2.84
Nominal elongation at rupture	527-2	%	151.40	78.30	11.09	2.51
Tensile stressed at yield	527-2	MPa	15.25	0.44	12.64	1.44
Elongation at yield	527-2	%	21.39	0.84	9.18	1.96
Tensile strength	527-2	MPa	14.80	0.83	12.64	1.44
Elongation at tensile strength	527-2	%	138.20	85.90	9.18	1.96
Flexural modulus of elasticity	178	MPa	269.20	84.40	641.80	50.40
Flexural stress at 3.5 % outer fibre strain	178	MPa	10.09	1.48	18.42	0.69

Flexural stress at Fmax.

178

MPa

13.66

1.76

21.87

0.82