

Technical data sheet

Description

LIGNODUR® is a PVC compound containing wood flour with a wood portion of more than 50 % wood. High-quality stabilizers and pigments prove an excellent weather permanence.

Material specification: MÖLLER LIGNODUR-terrafina® PVC-WF 56

Characteristics	Unit	Standards	Measured value
Structure / Dimensions			
Height of floor board	mm	-	21 ⁻¹ ₊₀
Width of floor board	mm	-	196 / 200 ⁻¹
Delivery lengths	mm	-	4000 / 5000 ⁺²⁰ ₊₁₀
Material density	kg/m ³	EN 323	approx. 1400

Qualities according to the VHI quality label (average)			Measured value	Limit
Breaking load of a floor board (inside distance between supports of 480 mm), 20 °C, fresh			≥ 3400	≥ 3200
Breaking load of a floor board (inside distance between supports of 480 mm), after aging			≥ 3000	≥ 2560
Deflexion with load of 500 N, inside distance between supports: 480 mm, 20 °C			≤ 2,0	≤ 2,0
Creep characteristics: deformation with 85 kg for 7 days at 50 °C (inside distance between supports of 480 mm)			≤ 5	≤ 10
Water storage	Absorption of water	5 h, 100 °C	≤ 2,0	≤ 8
Water storage	Length growth	5 h, 100 °C	≤ 0,2	≤ 0,5
Water storage	Width growth	5 h, 100 °C	≤ 0,2	≤ 0,8
Water storage	Thickness growth	5 h, 100 °C	≤ 2,2	≤ 4,5
Anti skid, wet & dry	Value		EN 13839	0,67 = R12
	Value		DIN 51097	35° = C
Coefficient of thermal expansion, lengthwise	/ K		ISO 11359 - 2	≤ 24,0 x 10 ⁻⁶
	mm		l = 4 m, dT = 40 K	3,8

Other properties			Measured value		
Shape performance to heat (HDT, 1,8 N/nm ²)			°C	EN ISO 75	78
Guaranteed short time load capacity			kg	Lumped load	300
			kg/m ²	Area load	1000
Reaction to fire	graphite		Level	EN 13501-1	E
	other colours		Level	EN 13501-1	B _n - s1d0
Durability class	Laboratory		EN 113	EN 350-01	1 = very durable
	Outdoor test, 5 years		EN 252	EN 350-01	1 = very durable

Volatile organic materials			Measured value	Limit *1				
Formaldehyde			ppm	RAL - UZ 38	0,015	0,05		
Organic compounds			Boiling point 50 °C - 250 °C		µg/m ³	RAL - UZ 38	3	600
			Boiling point > 250 °C		µg/m ³	RAL - UZ 38	2	100
CMR-substances			µg/m ³	RAL - UZ 38	< 1	< 1		

*1 of low-polluting materials