Technical data

Material	Resysta homogenous	
Raw materials used	Rice husk Common salt Mineral oil	approx. 60% approx. 22% approx. 18%

Material properties

Density	ASTM D2395:2002	approx. 1.46 g/cm³
Coefficient of linear thermal expansion	ASTM D696	3,6 x 10(-5) m/mC
Water Absorption & Humidity	ASTm D1037:2006a	Little up to no water absorption (only surface moistening)
Weathering and UV-Resistance	QUV Test	With glaze treatment Resysta surfaces are extremly resistant
Slippery Test (wet area barefoot)	DIN 51097	Class C (highest class)
Fire Rating (German/European norm)	EN ISO 11925-2	B2 normal flammable (with additional treatment B1 achievable)
Fire rating according NFPA (US norm)	ASTM E84	Class A (flame propagation 25, smoke emission 450)
Fire rating (British Standard)	BS 476 Teil 6&7	Class 1
Durability-Resistance against wood-destrying fungi (basidiomycetes)	DIN V EN V 12038:2002	the material has not been affected highest durability Class 1
Emission	LGA-tested safety & contamination	LGA Test passed
Brinell Hardness	EN 1534	81,1 N/mm2
Coefficient of sliding and friction µ untreated	EN 13893	0,46
Coefficient of sliding and friction µ with 2K varnish	EN 13894	0,52
Axial Withdrawal Force (of Screws)	EN 320.2011-07	5777 N
Thermal Conductivity (λ)	EN 12664	0.199 W/(mK)
Water Vapour Transmission	DIN EN ISO 12572	µ=1300 -> sd 7.22m diffusion inhibiting
Bending Strength	ISO 178	46 N/mm²
Bending Modulus	ISO 178	3850 N/mm²
Tensile Strength	ISO 527	21,8 N/mm²
Tensile Modulus	ISO 527	2340 N/mm²
Shearing Strength	EN 392	16,8 N/mm²
Durability-Resistance against rotting fungi	CEN/TS 15083-2	nearly no loss of weight, highest durability, class 1 (very durable)
Resistance against mold fungi and wood discoloring fungi	EN 15534-1:2012	Resistance against the wood discoloring fungi
Resistance against termites	ASTM D3345-08	High resistance against termites (Coptotermes curvignathus), nearly no weight loss - very high durability
Specific surface and volume resistance	DIN IEC 60093 Messspannung 100 V	Surface resistance Rx=8,0*10(13) Ω Specific surface resistance α=8,1*10(14) Ω Volume resistance Rx=2,2*10(13) Ω Specific volume resistance α=6,3*10(14) Ω

Processing

Processing		Like wood with wood processing machines: cutting, milling, drilling, sanding, gluing and screwing
Surface treatment		Only use Resysta glaze and varnishes