nuo|wood

NUO | TECHNICAL DATASHEET

WITHOUT SURFACE

Update: April 2021 // Subject to change and errors without notice.

COMPOSITION

NUO is made from thin veneer sheets which are bonded to a textil backing with a formaldehyde-free adhesive. The composition is as follows, depending on the type of wood and further processing of the material: wood 28 -40%, adhesive 15 -22%, textile 40 -50%.

DIMENSIONS AND WEIGHT

The thickness of the composite material is approximately 0.5 - 0.7 mm. The maximum possible length is 2800 mm, the maximum possible width is 1250 mm (gross dimension). The weight is 540 ± 40 g/m² according to DIN EN 29073-1.

MECHANICAL ASPECTS

The mechanical properties of NUO depend on how often and with what substances the surface is treated and which backing material is used. We recommend to carry out preliminary tests according to the intended use in order to achieve optimum results. The following tests were carried out on the untreated material.

Tensile strength	length cross	UNI EN 13522:2003	16,1 N/mm 20,9 N/mm
Elongation at 50 N	length cross	UNI EN 13522:2003	14,0 % 16,2 %
Abrasion resistance		DIN EN 14465	>35.000 Tours Category B
Rub fastness	dry wet	EN ISO 105.X12	2-3 2-3 (fastness scale 1-5)

Media resistance[1]	Acetone Caustic potash 10% Food vinegar 5% Ammonia 25% Water Mustard Ethanol 48% Coffee 3% (instant) Ajax 1:5 Nivea sun cream Nivea cream Coca Cola Lactic acid 10% Super petrol Cider vinegar Brake fluid DOT4 Engine oil 15W40 Phosphoric acid 5% Isopropanol Rapeseed oil Red wine	VW TL 226 (2018-04), DIN EN ISO 4628-1 (2016-07)	0 1 0 0 0 2 0 1 0 3 3 0 0 0 0 2 3 0 0 3 0
Determination of distension and strength of surface (First baking heavy cotton, second baking light cotton)	Ø thickness in mm Ø elongation at burst in mm Ø bursting force in N	DIN EN ISO 3379 : 2015-12 / DIN EN ISO 17693	1,22 8,2 318

COLOUR AND STRUCTURE

As this is a natural product, the colour and texture may vary slightly per production charge / per log and/or per sheet. Small knots and other growth-related characteristics are not defects, but a sign of the authentic wood surface.

[1]
0 not changed, i.e. no noticeable change
1 very small, i.e. just noticeable change
2 low, i.e. clearly noticeable change
3 medium, i.e. very clearly noticeable change
4 strong, i.e. pronounced change
5 massive change

Grimmel VENEERS

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NUO | TECHNICAL DATASHEET

WITH FIRE PROTECTION

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Abrasion resistance		DIN EN 14465	>35.000 Tours Category B
Rub fastness	dry wet	EN ISO 105.X12	2-3 2-3 (fastness scale 1-5)
Reaction to fire		Orienting preliminary test[1] EN 1021 Part 1 and 2 Preliminary test according to DIN EN 13823 (fire class B1 according to EN 13501)	passed

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[1] Official approval in progress

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NUO | TECHNICAL DATASHEET

WITH VARNISH

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Elongation at 50 N	length cross	UNI EN 13522:2003	14,0 % 16,2 %
Abrasion resistance		DIN EN 14465	>100.000 Tours Category B
Adhesion of the coating	length cross	EN ISO 2409	Gt 1
Rub fastness	dry wet	EN ISO 105. X12	4-5 4-5 (fastness scale 1-5)

Media resistance[1]	Acetone	VW TL 226 (2018-04), DIN EN ISO 4628-1 (2016-07)	0
	Caustic potash 10%		4
	Food vinegar 5%		0
	Ammonia 25%		1
	Water		0
	Mustard		2
	Ethanol 48%		0
	Coffee 3% (instant)		0
	Ajax 1:5		0
	Nivea sun cream		2
	Nivea cream		1
	Coca Cola		1
	Lactic acid 10%		0
	Super petrol		0
	Cider vinegar		0
	Brake fluid DOT4		0
	Engine oil 15W40		3
	Phosphoric acid 5%		2
	Isopropanol		0
	Rapeseed oil		1
	Red wine		1

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WITH VARNISH & FIRE PROTECTION

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