

# Technical data

**noraplan®** valua, surface: linear

	Test method	Requirements	Average test results from running production
<b>CE conformity</b>	<b>EN 14 041</b>		<b>Manufacturer: nora systems GmbH, D-69469 Weinheim</b>
DoP-No.	EN 14 041		0016
Thermal conductivity	EN 10 456	$\lambda = 0.17 \text{ W/(m}\cdot\text{K)}$	Fulfilled Suitable for underfloor heating systems
Dynamic coefficient of friction	EN 13 893	DS	Fulfilled
Reaction to fire	EN 13 501-1	Not bonded	B <sub>fl</sub> -s1, bonded
Reaction to fire	EN 13 501-1	Bonded on mineral subfloor	B <sub>fl</sub> -s1

## Properties acc. to EN 1817

Thickness	EN ISO 24 346	Mean value $\pm 0.15 \text{ mm}$ acc. to EN 1817	2.0 mm
Dimensional stability	EN ISO 23 999	$\pm 0.4 \%$	$\pm 0.3 \%$
Cigarette-burn resistance	EN 1399	Procedure A (stubbled out) $\geq$ level 4 Procedure B (burning) $\geq$ level 3	Fulfilled
Flexibility	EN ISO 24 344, procedure A	Mandrel diameter 20 mm, no fissuring	Fulfilled
Hardness	ISO 7619	$\geq 75 \text{ Shore A}$ acc. to EN 1817	92 Shore A
Residual indentation	EN ISO 24 343	Mean value $\leq 0.15 \text{ mm}$ at thickness $< 2.5 \text{ mm}$	0.05 mm
Abrasion resistance at 5 N load	ISO 4649, procedure A	$\leq 250 \text{ mm}^3$	150 mm <sup>3</sup>
Colour fastness to artificial light	ISO 105-B02, procedure 3, test conditions 6.1 a)	At least level 6 on the blue scale; $\geq$ level 3 on the grey scale (= 350 MJ/m <sup>2</sup> )	Grey scale $\geq$ level 3 acc. to ISO 105-A02
Classification	EN ISO 10 874	Residential / Commercial / Industrial	23 / 34 / 42

## Additional technical properties

Toxicity of fire gases	DIN 53 436		Carbonisation gases are non-toxic
Anti-slip properties	DIN 51 130	Acc. to BGR 181	R 9
	DIN 51 097		-
	BS 7976 TRRL Pendulum		-
	SATRA TM 144		-
Improvement in footfall sound absorption	ISO 10 140-3		6 dB
Effect of chemicals	EN ISO 26 987		Resistant depending on concentration and time of exposure*
Electrical insulation properties	IEC 60 093, VDE 0303 T.30		$> 10^{10} \text{ Ohm}$
Electrical propensity when walked upon	EN 1815		Antistatic, charging in case of rubber soles $< 2 \text{ kV}$
Effect of a castor chair	EN 425		Suitable if castor wheels, type W, acc. to EN 12 529, are used

\* In case of increased impact of oils, grease, acids, alkalis and other aggressive chemicals please contact us.

EN 1817: Specification for homogeneous and heterogeneous smooth elastomer floor coverings

Colour variations due to different production batches as well as technical alterations to improve the product have to be accepted.