



Product Information

noraplan® marine

Designs: **signa/environcare**, **sentica**, **stone** and **eco**

noraplan® marine are single-layer rubber floor coverings available in rolls and tiles in the above-named designs. **noraplan® stone** has a mat, reflection-breaking, finely-structured surface. The designs **signa/environcare**, **sentica** and **eco** are available with a smooth, non-reflecting surface.

Technical data Properties acc. to EN 1817	Test method	Requirements	Average test results from continuous production
Thickness	EN ISO 24 346	Mean value \pm 0.15 mm of nominal value	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 Shore A	91 Shore A
Residual indentation	EN ISO 24 343	Mean value \leq 0.15 at thickness < 2.5 mm Mean value \leq 0.20 at thickness \geq 2.5 mm	0.03 mm
Abrasion resistance at 5 N load	ISO 4649, procedure A	\leq 250 mm ³	189 mm ³
Colour fastness to artificial light	ISO 105-B02, procedure 3, test conditions 6.1 a)	At least 6 on the blue scale, \geq 3 on the grey scale (= 350 MJ /m ²)	Grey scale \geq 3 acc. to ISO 105-A02
Additional technical data			
Weight	EN ISO 23 997		\sim 3.29 kg/m ²
Tear strength	ISO 34-1, method B, procedure A		20 N/mm
Slip resistance	DIN 51 130		R 9* (smooth surface) R 10* (finely-structured surface)
Improvement in footfall sound absorption	ISO 10 140-3		6 dB
Electrostatic behaviour when being walked on	EN 1815		Antistatic, charging in case of rubber soles < 2 kV
Fire behaviour / Smoke behaviour		Fulfils the requirements	
Fire behaviour	EN 13501-1		Cfl-s1
	DIN 5510-2	Deutsche Bahn AG	SF3*
	ASTM E-648 / ISO 9239-1	Federal Railroad Administration	Class 1 (> 1.0 W/cm ²)
Toxicity of fire gases	ISO 5659-2	DIN 5510-2	FED \leq 1*
Fire behaviour, sea going vessels (surface flammability)	IMO Res. MSC.307(88)- F.T.P. Code 2010, part 2+part 5		Fulfilled (glued with UZIN KR 430)
Smoke density and toxicity, sea going vessels			
Oxygen index	ISO 4589		28%
Approvals			
EU-Type Examination Certificate for use on board of sea going vessels in compliance with directive 2014/90/EU			Certificate No. 124.117

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

* Tested and certificated by an independent testing institute.