

Technical features

Property	Method	Units	Results KRION® Stone (11 mm)	Results KRION® Lux (12 mm)
Density	DIN ISO 1183	g/cm ³	1.787 - 1.800	1.710 - 1.726
Flexural modulus	DIN EN ISO 178	MPa	9,786 - 9,894	9,260 - 9,834
Flexural strength	DIN EN ISO 178	MPa	52.3 - 54.7	68.1 - 73.4
Elongation	DIN EN ISO 178	%	0.55 - 0.59	1.08 - 1.12
Compression resistance	EN ISO 604	MPa	111 - 115	97 - 101.2
Impact resistance (continuous load)	DIN ISO 4586 T11	N	> 25	>25
Impact resistance (falling ball)	ISO 19712	Ball 324 g/2 m	Does NOT break (>130 cm)	Does NOT break (>190 cm)
Surface hardness (Mohs scale)	DIN EN 101		3	3
Abrasion resistance (use)	DIN ISO 4586 T6	% mass / 100 rev.	0.148	0.11
		mm ³ / 100 rev.	82	64
Immersion in boiling water	DIN ISO 4586 T7	Weight %	0.1 - 0.3	0 - 0.25
Resistance to bacteria and fungi	DIN EN ISO 846		Do NOT thrive	Do NOT thrive
Dimensional stability 20 °C	DIN ISO 4586 T10	% change in length	0.01 (90% HR and 23% HR)	0.02 (90% HR) and 0.08 (23% HR)
Resistance to dry heat 180 °C	ISO 19712-2	4	Slight change brightness/color	Slight change brightness/color
Translucency (xenon arc)	DIN ISO 4586 T16	"Blue wool"	> 6	> 6
Non-slip properties	UNE-ENV 12633:2003 (USRV values)	Less than 120 sanding	CLASS 2	CLASS 1
40-Sanded finish anti-slip properties	UNE ENV 12633:2003	Rd (roughness)	Rd = 58 CLASS 3	Rd = 40 CLASS 2
80-Sanded finish anti-slip properties	UNE ENV 12633:2003	Rd (roughness)	Rd = 52 CLASS 3	Rd = 38 CLASS 2
100-Sanded finish anti-slip properties	UNE ENV 12633:2003	Rd (roughness)	Rd = 45 CLASS 2	Rd = 36 CLASS 2
120-Sanded finish anti-slip properties	UNE ENV 12633:2003	Rd (roughness)	Rd = 28 CLASS 1	Rd = 22 CLASS 1
320-Sanded finish anti-slip properties	UNE ENV 12633:2003	Rd (roughness)	Rd = 20 CLASS 1	Rd = 14 CLASS 0
Transverse resistivity	UNE 21-303:1983	Ωm	> 5.1 x 10 ¹⁰	>5.1 x 10 ¹⁰
Surface resistivity	UNE 21-303:1983	Ω	579.1 x 10 ⁻⁹	>1 x 10 ⁻⁹
Toxicity of combustion gases	NF F 16-101		Class F0	Class F0
Fire classification	EN 13501-1:2003		Euroclass B, s1, d0	Euroclass B, s1, d0
Thermal conductivity	UNE 1267 (2002)	W / m ²	q = 113.1	q = 113.1
	UNE 1267 (2002)	m ² . K / W	R < 0.05	R = 0.05
	UNE 1267 (2002)	W / m . K	λ approx. 0.428	λ = 0.396
Resistance to thermal shock (90 - 20 °C)	ISO 19712-2 (Sheet)	250 Cycles	Satisfactory	Satisfactory
Resistance to thermal shock (65 - 10 °C)	ISO 19712-3 (Shape)	500 Cycles	Satisfactory	Satisfactory