

TECHNICAL FEATURES

Property	Method	Units	Result KRION® STONE (12 mm)	Result 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	9786 - 9894	8596 - 8724
Flexural strength	DIN EN ISO 178	MPa	52,3 - 54,7	75,1 - 76,9
Elongation at break	DIN EN ISO 178	%	0,55 - 0,59	1,08 - 1,12
Compressive strength	EN ISO 604	MPa	111 - 115	97 - 101,2
Impact resistance (spring load)	DIN ISO 4586 T11	N	> 25	>25
Impact resistance (ball drop)	ISO 19712	Ball 324 g/2 m	DOES NOT break (>120 cm)	DOES NOT break (>120 cm)
Surface hardness (Mohs index)	DIN EN 101		3	3
Resistance to surface wear (use)	DIN ISO 4586 T6	% mass / 100 rev.	0,148	0,11
		mm ³ / 100 rev.	82	64
Resistance to boiling water - increase in weight	DIN ISO 4586 T7	% weight	0,2	0,25
Resistance to bacteria and fungi	DIN EN ISO 846		Does not support microbial growth	Does not support microbial growth
Dimensional stability at 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 in gloss/colour	Slight change in gloss/colour
Lightfastness (Xenon arc)	DIN ISO 4586 T16	"Blue wool"	> 6	> 6
Anti-slip properties	UNE-ENV 12633:2003 (USRV)	Grit less than 120	CLASS 2	CLASS 2
Anti-slip properties with 80 grit	UNE ENV 12633:2003	Rd (roughness)	45. CLASS 2 (wet and greasy areas)	45. CLASS 2 (wet and greasy areas)
Anti-slip properties with 120 grit	UNE ENV 12633:2003	Rd (roughness)	19. CLASS 1 (wet indoor areas)	19. CLASS 1 (wet indoor areas)
Anti-slip properties with 180 grit. With anti-slip surface treatment	UNE ENV 12633:2003	Rd (roughness)	22. CLASS 1 (wet indoor areas)	22. CLASS 1 (wet indoor areas)
Anti-slip properties with 180 grit	UNE ENV 12633:2003	Rd (roughness)	16. CLASS 1 (wet indoor areas)	16. CLASS 1 (wet indoor areas)
Anti-slip properties with 220 grit. With anti-slip surface treatment	UNE ENV 12633:2003	Rd (roughness)	18. CLASS 1 (wet indoor areas)	18. CLASS 1 (wet indoor areas)
Volume 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
Smoke index	NF F 16-101		Class F0	Class F0
Reaction to fire	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 aprox. 0,428	λ = 0,396
Thermal shock resistance (90 - 20 °C)	ISO 19712-2 (sheet)	250 cycles	Satisfactory	Satisfactory
Thermal shock resistance (65 - 10°C)	ISO 19712-3 (shape)	500 cycles	Satisfactory	Satisfactory