

Technical Data

TECHNICAL FEATURES

KRION™ solid surface is rated as having a Euroclass B s1 fire resistance in accordance with the EN 13051-1:2003 standard and B1 fire resistance (with no restrictions) according to DIN 4102. It has been awarded Greenguard Gold and NSF/ANSI 5 Food Equipment Materials certificates and complies with REACH, with certificate of compliance HKHL 1501002788JL.

Property	Method	Result	Units / Measures
Density	ISO 1183 / ASTM D792	1.71 - 1.77	g/cm ³
Flexural modulus of elasticity	ISO 178 / ASTM D790	8500 - 11620	MPa
Flexural strength		60 - 78	MPa
Tensile modulus	ISO 527 / ASTM D638	9380 - 11325	MPa
Tensile strength		40 - 60	MPa
Compressive strength	ISO 604	97 - 101.2	MPa
Impact resistance (ball drop)	ISO 19712-2 UNE EN 438-2 ISO 4586-2 NEMA LD 3	Satisfactory (No break)	324g ball / Height 1.9m (2m)
Abrasion resistance	UNE EN 438-2 ISO 4586-2	0.028	% mass / Δmass(%) every 25 rev.
Resistance to boiling water	UNE EN 438-2 ISO 4586-2 NEMA LD 3	0.1 - 0.30	% weight
		0.1 - 0.30	% thickness
		Level 5: No change	Levels 1-5
Resistance to bacteria	ISO 846 / ASTM G22	No proliferation	
Resistance to fungi	ISO 846 / ASTM G21		
Anti-slip properties depending of grit finish from (40-600)	UNE ENV 12633	Rd = 40 Class 2 - Rd = 12 Class 0	SR (Roughness) Pendulum
	ASTM C1028	0.8 - 0.69	Dry Static Coefficient
		0.82 - 0.62	Wet Static Coefficient
	ANSI A.137.1:2012	0.7 - 0.35	Wet Dynamic Coefficient
Dimensional stability	ISO 4586-2 UNE EN 438-2	0.02 (90% HR & 23°C)	% change in length
		0.08 (23% HR & 23°C)	
Dimensional stability at high temperatures	UNE-EN 438-2	0.18 (70°C)	% change in length /
		0.10 (95% HR & 40°C)	
Linear thermal expansion	ISO 11359-2 ASTM D696	3.72 x 10 ⁻⁶	λ (mm/m °C)
Coefficient of thermal expansion	UNE-EN 14581	0.112	3*λ (mm ³ /m ³ °C)
Resistance to artificial weathering. Xenon arc (3000h)	ISO 4586-2 UNE EN 438-2 ISO 4892-2	Level 5: No change	Grey scale. Levels 1-5
Resistance to ultra-violet light. UV-313 lamp (1500 hrs)	UNE EN 438-2 ISO 4892-3	Level 4,5: Slight change	Grey scale. Levels 1-5
Lightfastness (122 hrs)	ISO 19712-2 UNE 56868:2002	Level 5: No change	Grey scale. Levels 1-5
Colour fastness	ISO-19712-2	>6	"blue wool"

Thermal resistance	UNE EN 12667	q = 104.8	W / m
		R = 0.05	m² . K / W
		λ = 0.396	W / m . K
Thermal shock resistance (90 - 20 °C / 194 - 68 °F)	ISO-19712-2	Satisfactory	250 Cycles
Surface resistance to damp heat	ISO 19712-2 ISO 4586-2	Satisfactory Level 5: No change	Levels 1-5
Surface resistance to dry heat	ISO 19712-2 UNE-EN 438-2 ISO 4586-2 UNE 56867 UNE 56842	Satisfactory Level 4: Slight change in gloss degree only visible from certain angles	Levels 1-5
Surface defects	ISO-19712-2	Satisfactory	No defects
Barcol hardness	ISO-19712-2 ASTM D 2583	60 - 65	Units
Rockwell hardness	ISO-19712-2 ASTM D785 ISO-2039-2	> 85	Units
Falling ball test	ISO-19712-2 ISO-2039-1	240 - 280	N/mm²
Resistance to cigarette burns	ISO 19712-2 UNE-EN 438-2	Satisfactory. Level 4: Slight change in gloss degree only visible from certain angles	Levels 1-5
Load test	ISO-19712-2	Satisfactory (No cracks or fissures were observed after the test)	0.12 mm (residual deflection)
Chemical resistance (Method A)	ISO-19712-2	Satisfactory 5 (In all cases, except acetone with level 4)	Levels 1-5
Chemical resistance (Method B)	ISO-19712-2	27	Cleanliness rating from 0 to 75
Chemical resistance	UNE 56867	Satisfactory	
Fire rating	UNE-EN 13501-1	B s1 d0	Euroclase
	ASTM E84	Class A	"IBC class"
	DIN 4102-1	B1	
	UL94HB	Satisfactory	
	NFPA 259	Satisfactory	
Scratch resistance	UNE-EN 438-2	4	Levels 1-5
	Eq. Mohs	3	
Cracking resistance	UNE-EN 438-2	5	Levels 1-5
Surface permeability	NF T 30-801	8	g/m² day
Resistance to water vapor	UNE 56867 UNE 56842	Satisfactory	
Specific heat	UNE 23721	1.361	J/g K
Water absorption	ASTM D570	0.03	%
Deflection temperature (load 1.82 N/mm²)	ASTM D648	>95	°C



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SYSTEMPOOL (<http://www.system-pool.com>)

Ctra. Villarreal - Onda (CV-20) Km 1
12540 Villarreal (Castellón) SPAIN
P.O.Box 372

Tel. (+34) 964 50 64 64
Fax. (+34) 964 50 64 81
krion@krion.com

Store locator (<http://www.krion.es/en/puntos-de-venta>)

Contact (<http://www.krion.es/en/contacto>)

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