

Ceramica del Conca SpA Technical Characteristics

HNS- NESTING collection.

EN 14411:2016 Annex G Required for BIa

Reference	Characteristics	Standard	Required values		CdC Values:
Dimensional standard	Length and width	ISO 10545-2	± 0.6%	± 2.0 mm	Comply
	Straightness of sides	ISO 10545-2	± 0.5%	± 1.5 mm	Comply
	Rectangularity	ISO 10545-2	± 0.5%	± 2.0 mm	Comply
	Flatness-Centre curvature	ISO 10545-2	± 0.5%	± 2.0 mm	Comply
	Flatness - Edge curvature	ISO 10545-2	± 0.5%	± 2.0 mm	Comply
	Flatness - Warpage	ISO 10545-2	± 0.5%	± 2.0 mm	Comply
	Thickness	ISO 10545-2	± 5%	± 0.5 mm	Comply
	Surface quality	ISO 10545-2	Minimum 95%		Comply
Mechanical Standard	Water absorption	ISO 10545-3	Maximum 0.5%		~ 0.1%
	Modulus of rupture	ISO 10545-4	> 35 N/mm ²		Comply
	Breaking Strength	ISO 10545-4	> 1300 N		Comply
	Impact resistance	ISO 10545-5	Declared value		~ 0.89 (COR)
	Linear thermal expansion	ISO 10545-8	Declared value		$\alpha = \sim 6.4 \times 10^{-6} \text{ } ^\circ\text{C}^{-1}$
	Thermal shock resistance	ISO 10545-9	Pass		Comply
	Moisture Expansion	ISO 10545-10	Declared value		~ 0.04 mm/m
	Crazing Resistance	ISO 10545-11	Pass		Comply
	Frost resistance	ISO 10545-12	Pass		Comply
	Chemical resistance	ISO 10545-13	Minimum class GB		Comply
	DEEP Abrasion	ISO 10545-6	<175mm ³		135 mm³
	MOHS	Declared value			Mohs ≥ 6
	Multi-attribute		Declared value	Nat	

Safety Standard	International requirements	Stain resistance	ISO 10545-14	Minimum class 3		Comply
		Fire reaction - floor	EN 13823	Not Required		A1fl class (No reaction)
		Fire reaction - wall	EN 13823	Not Required		A1 class (No reaction)
		VOC				No VOC
	EU requirements	Ramp resistance	DIN EN 16165:2021 Annex B	Declared value	Nat	R10
					Grip	R11
		Barefoot ramp resistance	DIN EN 16165:2021 Annex A	Declared value	Nat	B
					Grip	C
	US Requirements	Dynamic coefficient of Friction DCOF	ANSI A326.3:2022	Declared value	Nat	0.70
					Grip	0.66
	IT Requirements	Determination of slipperiness BCR tortus	DM 236-89	> 0.40	Nat	DRY: 0.44 WET: 0.64
					Grip	DRY: 0.56 WET: 0.82
	BS requirements	PENDULUM	BS EN 16165:2021 Annex C	Declared value	Nat	DRY: 55 WET: 40
					Grip	DRY: 60 WET: 50

Values reflect an average among test performed in our laboratory according to the standard requirements and/or through third party laboratory.

Test are performed on actual production, first choice material. Values may vary between single individual production run.

Ceramica del Conca Technical team will be pleased to integrate and answer specific questions.