



TECHNICAL DATA SHEET OBSIDIANA COMPAC



According to standards EN-15285, EN-15286, ASTM.

TECHNICAL CHARACTERISTICS		
TEST / STANDARD	UNITS / MEASUREMENT	RESULT
Reaction to fire UNE EN 13501-1	Euroclasses	A2fl s1
Thermal Conductivity EN 10456	W/m·K	1,1
Coefficient of Thermal Expansion (Linear) UNE EN 14617-11	°C ⁻¹	1,20 – 1,5·10 ⁻⁵
Flexural Strength UNE EN 14617-2	MPa	40 – 60
Impact Resistance UNE EN 14617-9	J	min 2,8 (12 mm) min 5,5 (20 mm)
Slip Resistance UNE EN 14231	USRV	Pulido: 9 húmedo / 40 seco Glacé: 13 húmedo / 44 seco
Abrasion Resistance UNE EN 14617-4	mm	30 – 33
Water Absortion UNE EN 14617-1	%	0,02 – 0,05 W ₄
Apparent Density UNE EN 14617-1	kg/m ³	2250 – 2300
Chemical Resistance UNE EN 14617-10	-	To alkalis: C4 (Materials retaining at least 80% of reference reflection value after 8 hours). To acids: C4 (Materials retaining at least 80% of reference reflection value after 8 hours).

All data in this document is based on tests conducted in external, independent laboratories.

TECHNICAL CHARACTERISTICS

TEST / STANDARD	UNITS / MEASUREMENT	RESULT
Mohs hardness EN 101:1991	Mohs	6
Termal shock ASTM C484	5 ciclos	Sin defectos visibles
Breaking strength ASTM C648	lbf	8818
Flexural resistance ASTM C880	MPa	36,2
Abrasion resistance ASTM C1353	I_w	67,4
Compressive Strength ASTM C170	MPa	181,4
Modulus of rupture ASTM C99	MPa	44,8
Chemical Resistance (cleaning substances) ASTM C650-04	Acetic acid 3% Acetic acid 10% Ammonium Chloride 100 g/l Citric acid 30 g/l Citric acid 100 g/l Lactic acid 5% Phosporic acid 3% Phosporic acid 10% Sulfamic acid 30 g/l Sulfamic acid 100 g/l	Pencil mark: NA Pencil mark: NA Pencil mark: NA Pencil mark: NA Pencil mark: NA Pencil mark: NA Pencil mark: NA Pencil mark: NA Pencil mark: NA Pencil mark: NA

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TECHNICAL CHARACTERISTICS		
TEST / STANDARD	UNITS / MEASUREMENT	RESULT
Resistance to chemichal pool substances ASTM C650-04	Sodium Hypochlorite 20 mg/l	Pencil mark: NA
Chemical Resistance (acids and bases) ASTM C650-04	Hydrochloric Acid 3%	Pencil mark: NA
	Hydrochloric Acid 18%	Pencil mark: NA
	Potassium Hydroxide 30 g/l	Pencil mark: Gloss change
	Potassium Hydroxide 100 g/l	Pencil mark: Gloss change
Stain Resistance ASTM C1378	Contrast Grout	Not attacked
	Carbon Black	Not attacked
	Waterproof Black Ink	Not attacked
	Washable Ink	Not attacked
	Potassium	Not attacked
	Permanganate 1%	
	Methylene Blue 1%	Not attacked

The values in this technical sheet are typical for this type of material and are not binding.
For more information, contact COMPAC's technical department.

Volcano: V. Dark, V. Pearl, V. Grey, V. Fog, V. Light

Astral: A. Titaneo, A. Azabache, A. Lactea.



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