

TECHNICAL INFORMATION

DEKTON

Name and Identification

Product: Dekton®

Code: Family I – II – III - IV

Name and address of manufacturer:

Company: Cosentino S.A

Address: Carretera A-334, km 59, código postal 04850 Cantoria (Almería) - Spain

TECHNICAL INFORMATION DEKTON FAMILY I | STANDARD EN-14411

(Domoos, Sirius, Sirocco, Kadum, Strato, Keranium, Ananke, Vegha, Kelya, Valterra, Aldem, Borea, Keon, Odin, Galema, Korus, Ventus, Fossil, Orix, Kira)

Test	Standard	Determination	UD	Family I	Standard
Flexural tensile strength or modulus of rupture	EN ISO 10545-4	Average flexural resistance	N/mm ²	60	≥ 35
		Average break load	N	2548	≥ 1300
		Average break strength	N	14966	-
Water absorption, apparent porosity, density	EN ISO 10545-3	Water absorption by boiling	%	0	-
		Water absorption by vacuum	%	0.1	≤ 0.5
		Open porosity	%	0.2	-
		Apparent relative density	g/cm ³	2.51	-
		Apparent density	g/cm ³	2.50	-
Resistance to deep abrasion	EN ISO 10545-6	Wear volume	mm ³	125	≤ 175
Dimensions and surface quality	EN ISO 10545-2	Length and width	%	0.11/-0.18	±0.6
		Thickness	%	±0.50	±5
		Straightness of sides	%	±0.01	±0.5
		REctangularity	%	0.07/-0.16	±0.5
		Centre curvature	%	0.04/-0.08	±0.5
		Side curvature	%	±0.06	±0.5
		Warpage	%	-0.11	±0.5
		Surface quality	%	100	≥ 95
Impact resistance	EN ISO 10545-5	Coefficient of restitution (COR)	-	0.85	DV
Determination of linear thermal expansion	EN ISO 10545-8	Expansion 30-100°C	°C ⁻¹	6.5·10 ⁻⁶	DV
Thermal shock resistance	EN ISO 10545-9	Damage	-	No affected	No damage
Moisture expansion	EN ISO 10545-10	Expansion max	mm/m	0.1	DV
		Expansion mid	mm/m	0.0	DV
Frost resistance	EN ISO 10545-12	Damage	-	No affected	No damage
Resistance to chemicals	EN ISO 10545-13 (Range A-C, being A the best value) U: unglazed L: Low concentration H: High concentration	CINH ₄ / Cleaning products	Type	UA (no damage)	Minimum type B
		Bleach/swimming pool salts	Type	UA (no damage)	Minimum type B
		HCl (3% v/v)	Type	ULA (no damage)	DV
		Citric acid (100 g/l)	Type	ULA (no damage)	DV
		KOH (30 g/l)	Type	ULA (no damage)	DV
		HCl (18%)	Type	UHA (no damage)	DV
		Lactic acid (5%)	Type	UHA (no damage)	DV
		KOH (100 g/l)	Type	UHA (no damage)	DV
Resistance to staining	EN ISO 10545-14 (Range 1-5, being 5 the best value)	Green agent	Type	5	DV
		Red agent	Type	-	DV
		Iodine (solution)	Type	5	DV
		Olive oil	Type	5	DV

(-) The standard doesn't limit the value

(DV) The standard only forces to declare the value

TECHNICAL INFORMATION DEKTON FAMILY II | STANDARD EN-14411

(Zenith, Aura, Ariane, Kairos, Entzo, Aura15, Nayla, Nilium, Opera)

Test	Standard	Determination	UD	Family II-A	Standard
Flexural tensile strength or modulus of rupture	EN ISO 10545-4	Average flexural resistance	N/mm ²	67	≥ 35
		Average break load	N	2313	≥ 1300
		Average break strength	N	13559	-
Water absorption, apparent porosity, density	EN ISO 10545-3	Water absorption by boiling	%	0.1	-
		Water absorption by vacuum	%	0.1	≤ 0.5
		Open porosity	%	0.2	-
		Apparent relative density	g/cm ³	2.61	-
		Apparent density	g/cm ³	2.61	-
Resistance to deep abrasion	EN ISO 10545-6	Wear volume	mm ³	106	≤ 175
Dimensions and surface quality	EN ISO 10545-2	Length and width	%	0.04/-0.08	±0.6
		Thickness	%	4.95/-2.20	±5
		Straightness of sides	%	±0.03	±0.5
		Rectangularity	%	0.04/-0.09	±0.5
		Centre curvature	%	-0.06	±0.5
		Side curvature	%	0.02/-0.04	±0.5
		Warpage	%	-0.07	±0.5
		Surface quality	%	100	≥ 95
Impact resistance	EN ISO 10545-5	Coefficient of restitution (COR)	-	0.85	DV
Determination of linear thermal expansion	EN ISO 10545-8	Expansion 30-100°C	°C ⁻¹	5.1·10 ⁻⁶	DV
Thermal shock resistance	EN ISO 10545-9	Damage	-	No affected	No damage
Moisture expansion	EN ISO 10545-10	Expansion max	mm/m	0.1	DV
		Expansion mid	mm/m	0.0	DV
Frost resistance	EN ISO 10545-12	Damage	-	No affected	No damage
Resistance to chemicals	EN ISO 10545-13 (Range A-C, being A the best value) U: unglazed L: Low concentration H: High concentration	CINH ₄ / Cleaning products	Type	UA (no damage)	Minimum type B
		Bleach/swimming pool salts	Type	UA (no damage)	Minimum type B
		HCl (3% v/v)	Type	ULA (no damage)	DV
		Citric acid (100 g/l)	Type	ULA (no damage)	DV
		KOH (30 g/l)	Type	ULA (no damage)	DV
		HCl (18%)	Type	ULA (no damage)	DV
		Lactic acid (5%)	Type	ULA (no damage)	DV
		KOH (100 g/l)	Type	ULA (no damage)	DV
Resistance to staining	EN ISO 10545-14 (Range 1-5, being 5 the best value)	Green agent	Type	5	DV
		Red agent	Type	-	DV
		Iodine (solution)	Type	5	DV
		Olive oil	Type	5	DV

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TECHNICAL INFORMATION DEKTON FAMILY III | STANDARD EN-14411

(Danae, Irok, Edora, Blanc Concrete, Gada, Bento, Makai, Aged Timber, Sterling, Sarey, Dove)

Test	Standard	Determination	UD	Family III	Standard
Flexural tensile strength or modulus of rupture	EN ISO 10545-4	Average flexural resistance	N/mm ²	59	≥ 35
		Average break load	N	2356	≥ 1300
		Average break strength	N	13818	-
Water absorption, apparent porosity, density	EN ISO 10545-3	Water absorption by boiling	%	0.1	-
		Water absorption by vacuum	%	0.1	≤ 0.5
		Open porosity	%	0.2	-
		Apparent relative density	g/cm ³	2.53	-
		Apparent density	g/cm ³	2.52	-
Resistance to deep abrasion	EN ISO 10545-6	Wear volume	mm ³	115	≤ 175
Dimensions and surface quality	EN ISO 10545-2	Length and width	%	±0.04	±0.6
		Thickness	%	±0.53	±5
		Straightness of sides	%	0.01/-0.03	±0.5
		Rectangularity	%	±0.21	±0.5
		Centre curvature	%	-0.06	±0.5
		Side curvature	%	0.02/-0.04	±0.5
		Warpage	%	-0.06	±0.5
		Surface quality	%	100	≥ 95
Impact resistance	EN ISO 10545-5	Coefficient of restitution (COR)	-	0.85	DV
Determination of linear thermal expansion	EN ISO 10545-8	Expansion 30-100°C	°C ⁻¹	6.3·10 ⁻⁶	DV
Thermal shock resistance	EN ISO 10545-9	Damage	-	No affected	No damage
Moisture expansion	EN ISO 10545-10	Expansion max	mm/m	0.1	DV
		Expansion mid	mm/m	0.0	DV
Frost resistance	EN ISO 10545-12	Damage	-	No affected	No damage
Resistance to chemicals	EN ISO 10545-13 (Range A-C, being A the best value) U: unglazed L: Low concentration H: High concentration	ClNH ₄ / Cleaning products	Type	UA (no damage)	Minimum type B
		Bleach/swimming pool salts	Type	UA (no damage)	Minimum type B
		HCl (3% v/v)	Type	ULA (no damage)	DV
		Citric acid (100 g/l)	Type	ULA (no damage)	DV
		KOH (30 g/l)	Type	ULA (no damage)	DV
		HCl (18%)	Type	ULA (no damage)	DV
		Lactic acid (5%)	Type	ULA (no damage)	DV
		KOH (100 g/l)	Type	ULA (no damage)	DV
Resistance to staining	EN ISO 10545-14 (Range 1-5, being 5 the best value)	Green agent	Type	5	DV
		Red agent	Type	-	DV
		Iodine (solution)	Type	5	DV
		Olive oil	Type	5	DV

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TECHNICAL INFORMATION DEKTON FAMILY IV | STANDARD EN-14411

(Trilium, Radium)

Test	Standard	Determination	UD	Family IV	Standard
Flexural tensile strength or modulus of rupture	EN ISO 10545-4	Average flexural resistance	N/mm ²	60	≥ 35
		Average break load	N	2568	≥ 1300
		Average break strength	N	15620	-
Water absorption, apparent porosity, density	EN ISO 10545-3	Water absorption by boiling	%	0.1	-
		Water absorption by vacuum	%	0.1	≤ 0.5
		Open porosity	%	0.2	-
		Apparent relative density	g/cm ³	2.44	-
		Apparent density	g/cm ³	2.44	-
Resistance to deep abrasion	EN ISO 10545-6	Wear volume	mm ³	119	≤ 175
Dimensions and surface quality	EN ISO 10545-2	Length and width	%	±0.02	±0.6
		Thickness	%	-1	±5
		Straightness of sides	%	±0.02	±0.5
		Rectangularity	%	±0.08	±0.5
		Centre curvature	%	-0.07	±0.5
		Side curvature	%	±0.02	±0.5
		Warping	%	-0.04	±0.5
		Surface quality	%	100	≥ 95
Impact resistance	EN ISO 10545-5	Coefficient of restitution (COR)	-	0.92	DV
Determination of linear thermal expansion	EN ISO 10545-8	Expansion 30-100°C	°C ⁻¹	5.8·10 ⁻⁶	DV
Thermal shock resistance	EN ISO 10545-9	Damage	-	No affected	No damage
Moisture expansion	EN ISO 10545-10	Expansion max	mm/m	0.1	DV
		Expansion mid	mm/m	0.1	DV
Frost resistance	EN ISO 10545-12	Damage	-	No affected	No damage
Resistance to chemicals	EN ISO 10545-13 (Range A-C, being A the best value) U: unglazed L: Low concentration H: High concentration	CIN ₄ / Cleaning products	Type	UA (no damage)	Minimum type B
		Bleach/swimming pool salts	Type	UA (no damage)	Minimum type B
		HCl (3% v/v)	Type	ULA (no damage)	DV
		Citric acid (100 g/l)	Type	ULA (no damage)	DV
		KOH (30 g/l)	Type	ULA (no damage)	DV
		HCl (18%)	Type	ULA (no damage)	DV
		Lactic acid (5%)	Type	ULA (no damage)	DV
		KOH (100 g/l)	Type	ULA (no damage)	DV
Resistance to staining	EN ISO 10545-14 (Range 1-5, being 5 the best value)	Green agent	Type	5	DV
		Red agent	Type	-	DV
		Iodine (solution)	Type	5	DV
		Olive oil	Type	5	DV

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SLIPPERINESS DEKTON | STANDARD EN-14231

Finishing	Color	Determination	Value
Smooth Matt	Domoos Strato Sirocco Kadum Keranium Vegha Ventus Korus Galema Keon Kelya Zenith Aura Kairos Aura15 Entzo Danae Irok Sterling Sarey Trilium Orix Nayla Niliium Radium	USRV dry USRV humid	48 23
Textured -Slate-like/limestone	Sirius Gada Edora Dove Valterra Blanc Concrete	USRV dry USRV humid	49 22
Textured - Wood-like	Ananké Borea Aldem Odin Ariane Bento Makai Aged Timber	USRV dry USRV humid	44 21
Velvet – Satin matt	Opera	USRV dry USRV humid	*

* Pending test

SLIPPERINESS DEKTON | DIN 51130 AND DIN 51097

Finishing	Color	Norm	Value (°)	Type
Smooth Matt	Domoos	DIN 51130 DIN 51097	7.2 8	R9 -
	Strato			
	Sirocco			
	Kadum			
	Keranium			
	Vegha			
	Ventus			
	Korus			
	Galema			
	Keon			
	Kelya			
	Zenith			
	Aura			
	Kairos			
	Aura15			
	Entzo			
	Danae			
Irok				
Sterling				
Sarey				
Trilium				
Orix				
Nayla				
Nilium				
Radium				
Textured -Slate-like/limestone	Sirius	DIN 51130 DIN 51097	6.7 9	R9
	Gada			
	Edora			
	Dove			
	Valterra Blanc Concrete			
Textured - Wood-like	Ananke	DIN 51130 DIN 51097	5.7 14	- A
	Borea			
	Aldem			
	Odin			
	Ariane			
	Bento			
	Makai			
	Aged Timber			
Velvet – Satin matt	Opera	USRV dry USRV humid	*	*

* Pending test

SLIPPERINESS DEKTON | DIN 51130 AND DIN 51097

Treatment	Color	Norm	Value (°)	Type
Dekton Grip	Sirocco Strato Keon Danae Irok Makai Blanc Concrete	DIN 51130 DIN 51097	*	R10 A
Dekton Grip+	Valterra Danae Sirocco Strato Ventus Keon Trilium Irok Galema Korus Blanc Concrete Makai	DIN 51130 DIN 51097	*	R11 C