

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 |
|---|-----------------|---------------------------------------|-------------------|----------------------|
| Flexural tensile strength or modulus of rupture | EN ISO 10545-4 | Average flexural resistance | N/mm ² | 60 |
| | | Average break load | N | 2548 |
| | | 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 |
| | | 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 |
| Dimensions and surface quality | EN ISO 10545-2 | Length and width | % | 0.11/-0.18 |
| | | Thickness | % | 0.50/-0.50 |
| | | Straightness of sides | % | 0.01/-0.01 |
| | | Rectangularity | % | 0.07/-0.16 |
| | | Centre curvature | % | 0.04/-0.08 |
| | | Side curvature | % | 0.06/-0.06 |
| | | Warpage | % | -0.11 |
| | | Surface quality | % | 100 |
| Impact resistance | EN ISO 10545-5 | Coefficient of restitution (COR) | - | 0.85 |
| Determination of linear thermal expansion | EN ISO 10545-8 | Expansion 30-100°C | °C ⁻¹ | 6.5·10 ⁻⁶ |
| Thermal shock resistance | EN ISO 10545-9 | Damage | - | No affected |
| Moisture expansion | EN ISO 10545-10 | Expansion max | mm/m | 0.1 |
| | | Expansion mid | mm/m | 0.0 |
| Frost resistance | EN ISO 10545-12 | Damage | - | No affected |
| Resistance to chemicals | EN ISO 10545-13 | CINH ₄ / Cleaning products | Type | UA (no damage) |
| | | Bleach/swimming pool salts | Type | UA (no damage) |
| | | HCl (3% v/v) | Type | ULA (no damage) |
| | | Citric acid (100 g/l) | Type | ULA (no damage) |
| | | KOH (30 g/l) | Type | ULA (no damage) |
| | | HCl (18%) | Type | UHA (no damage) |
| | | Lactic acid (5%) | Type | UHA (no damage) |
| | | KOH (100 g/l) | Type | UHA (no damage) |
| Resistance to staining | EN ISO 10545-14 | Green agent | Type | 5 |
| | | Red agent | Type | - |
| | | Iodine (solution) | Type | 5 |
| | | Olive oil | Type | 5 |

TECHNICAL INFORMATION DEKTON FAMILY II | STANDARD EN-14411

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

| Test | Standard | Determination | UD | Family II-A |
|---|-----------------|---------------------------------------|-------------------|----------------------|
| Flexural tensile strength or modulus of rupture | EN ISO 10545-4 | Average flexural resistance | N/mm ² | 67 |
| | | Average break load | N | 2313 |
| | | 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 |
| | | 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 |
| Dimensions and surface quality | EN ISO 10545-2 | Length and width | % | 0.04/-0.08 |
| | | Thickness | % | 4.95/-2.20 |
| | | Straightness of sides | % | 0.03/-0.03 |
| | | Rectangularity | % | 0.04/-0.09 |
| | | Centre curvature | % | -0.06 |
| | | Side curvature | % | 0.02/-0.04 |
| | | Warping | % | -0.07 |
| | | Surface quality | % | 100 |
| Impact resistance | EN ISO 10545-5 | Coefficient of restitution (COR) | - | 0.85 |
| Determination of linear thermal expansion | EN ISO 10545-8 | Expansion 30-100°C | °C ⁻¹ | 5.1·10 ⁻⁶ |
| Thermal shock resistance | EN ISO 10545-9 | Damage | - | No affected |
| Moisture expansion | EN ISO 10545-10 | Expansion max | mm/m | 0.1 |
| | | Expansion mid | mm/m | 0.0 |
| Frost resistance | EN ISO 10545-12 | Damage | - | No affected |
| Resistance to chemicals | EN ISO 10545-13 | CINH ₄ / Cleaning products | Type | UA (no damage) |
| | | Bleach/swimming pool salts | Type | UA (no damage) |
| | | HCl (3% v/v) | Type | ULA (no damage) |
| | | Citric acid (100 g/l) | Type | ULA (no damage) |
| | | KOH (30 g/l) | Type | ULA (no damage) |
| | | HCl (18%) | Type | ULA (no damage) |
| | | Lactic acid (5%) | Type | ULA (no damage) |
| | | KOH (100 g/l) | Type | ULA (no damage) |
| Resistance to staining | EN ISO 10545-14 | Green agent | Type | 5 |
| | | Red agent | Type | - |
| | | Iodine (solution) | Type | 5 |
| | | Olive oil | Type | 5 |

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 |
|---|-----------------|--------------------------------------|-------------------|----------------------|
| Flexural tensile strength or modulus of rupture | EN ISO 10545-4 | Average flexural resistance | N/mm ² | 59 |
| | | Average break load | N | 2356 |
| | | 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 |
| | | 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 |
| Dimensions and surface quality | EN ISO 10545-2 | Length and width | % | 0.04/-0.04 |
| | | Thickness | % | 0.53/-0.53 |
| | | Straightness of sides | % | 0.01/-0.03 |
| | | Rectangularity | % | 0.21/-0.21 |
| | | Centre curvature | % | -0.06 |
| | | Side curvature | % | 0.02/-0.04 |
| | | Warpage | % | -0.06 |
| | | Surface quality | % | 100 |
| Impact resistance | EN ISO 10545-5 | Coefficient of restitution (COR) | - | 0.85 |
| Determination of linear thermal expansion | EN ISO 10545-8 | Expansion 30-100°C | °C ⁻¹ | 6.3·10 ⁻⁶ |
| Thermal shock resistance | EN ISO 10545-9 | Damage | - | No affected |
| Moisture expansion | EN ISO 10545-10 | Expansion max | mm/m | 0.1 |
| | | Expansion mid | mm/m | 0.0 |
| Frost resistance | EN ISO 10545-12 | Damage | - | No affected |
| Resistance to chemicals | EN ISO 10545-13 | CIN ₄ / Cleaning products | Type | UA (no damage) |
| | | Bleach/swimming pool salts | Type | UA (no damage) |
| | | HCl (3% v/v) | Type | ULA (no damage) |
| | | Citric acid (100 g/l) | Type | ULA (no damage) |
| | | KOH (30 g/l) | Type | ULA (no damage) |
| | | HCl (18%) | Type | ULA (no damage) |
| | | Lactic acid (5%) | Type | ULA (no damage) |
| | | KOH (100 g/l) | Type | ULA (no damage) |
| Resistance to staining | EN ISO 10545-14 | Green agent | Type | 5 |
| | | Red agent | Type | - |
| | | Iodine (solution) | Type | 5 |
| | | Olive oil | Type | 5 |

TECHNICAL INFORMATION DEKTON FAMILY IV | STANDARD EN-14411

(Trilium, Radium)

| Test | Standard | Determination | UD | Family IV |
|---|-----------------|---------------------------------------|-------------------|----------------------|
| Flexural tensile strength or modulus of rupture | EN ISO 10545-4 | Average flexural resistance | N/mm ² | 60 |
| | | Average break load | N | 2568 |
| | | 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 |
| | | 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 |
| Dimensions and surface quality | EN ISO 10545-2 | Length and width | % | 0.02/-0.02 |
| | | Thickness | % | -1 |
| | | Straightness of sides | % | 0.02/-0.02 |
| | | Rectangularity | % | 0.08/-0.08 |
| | | Centre curvature | % | -0.07 |
| | | Side curvature | % | 0.02/-0.02 |
| | | Warpage | % | -0.04 |
| | | Surface quality | % | 100 |
| Impact resistance | EN ISO 10545-5 | Coefficient of restitution (COR) | - | 0.92 |
| Determination of linear thermal expansion | EN ISO 10545-8 | Expansion 30-100°C | °C ⁻¹ | 5.8·10 ⁻⁶ |
| Thermal shock resistance | EN ISO 10545-9 | Damage | - | No affected |
| Moisture expansion | EN ISO 10545-10 | Expansion max | mm/m | 0.1 |
| | | Expansion mid | mm/m | 0.1 |
| Frost resistance | EN ISO 10545-12 | Damage | - | No affected |
| Resistance to chemicals | EN ISO 10545-13 | CINH ₄ / Cleaning products | Type | UA (no damage) |
| | | Bleach/swimming pool salts | Type | UA (no damage) |
| | | HCl (3% v/v) | Type | ULA (no damage) |
| | | Citric acid (100 g/l) | Type | ULA (no damage) |
| | | KOH (30 g/l) | Type | ULA (no damage) |
| | | HCl (18%) | Type | ULA (no damage) |
| | | Lactic acid (5%) | Type | ULA (no damage) |
| | | KOH (100 g/l) | Type | ULA (no damage) |
| Resistance to staining | EN ISO 10545-14 | Green agent | Type | 5 |
| | | Red agent | Type | - |
| | | Iodine (solution) | Type | 5 |
| | | Olive oil | Type | 5 |

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 |