

| TEST  | NORM          | DETERMINATION                      | Unit                  | FINISH      |            |            |             |        |
|---|---------------|------------------------------------|-----------------------|-------------|------------|------------|-------------|--------|
|   |               |                                    |                       | SATIN       | SILK       | POLISHED   | RIVERWASHED |        |
| Determination of Dimensions and Surface Quality | ISO 10545-2   | Thickness <sup>(1)</sup>           | mm                    | ± 0,2       | ± 0,2      | ± 0,2      | ± 0,2       |        |
|   |               | Flatness Tolerance Width Slab      | mm                    | ± 2 (0,1%)  | ± 2 (0,1%) | ± 2 (0,1%) | ± 2 (0,1%)  |        |
|   |               | Flatness Tolerance Length Slab     | mm                    | ± 4 (0,1%)  | ± 4 (0,1%) | ± 4 (0,1%) | ± 4 (0,1%)  |        |
|   |               | Dimension Tolerance <sup>(2)</sup> | mm                    | ± 1 (0,2%)  | ± 1 (0,2%) | ± 1 (0,2%) | ± 1 (0,2%)  |        |
| Water Absorption Capacity                       | ISO 10545-3   | Absorption by Boiling*             | %                     | ≤ 0,1       | ≤ 0,1      | ≤ 0,1      | ≤ 0,1       |        |
|   |               | Density                            | gr/cm <sup>3</sup>    | 2,4         | 2,4        | 2,4        | 2,4         |        |
| Impact Resistance                               | ISO 10545-5   | Coefficient of Restitution         | -                     | 0,8         | 0,8        | 0,8        | 0,8         |        |
| Resistance to Deep Abrasion                     | ISO 10545-6   | Lost Volume                        | mm <sup>3</sup>       | 112         | -          | -          | -           |        |
| Resistance to superficial abrasion              | ISO 10545-7   | Visual Control                     | Light Colors          | Class       | PEI V      | PEI IV     | PEI V       | PEI IV |
|   |               |                                    | Dark Colors           |             | PEI III    | PEI I      | PEI II      | PEI I  |
| Linear Thermal Expansion                        | ISO 10545-8   | Expansion 25 - 100°C (Average)     | 10 <sup>-6</sup> · °C | 5,7         | 5,8        | 5,3        | 6,1         |        |
| Thermal Shock                                   | ISO 10545-9   | Damage                             | -                     | No Damage   | No Damage  | No Damage  | No Damage   |        |
| Moisture Expansion                              | ISO 10545-10  | Coefficient of Expansion           | mm/m                  | < 0,1       | < 0,1      | < 0,1      | < 0,1       |        |
| Frost Resistance                                | ISO 10545-12  | Damage                             | -                     | No Damage   | No Damage  | No Damage  | No Damage   |        |
| Chemical Resistance                             | ISO 10545-13  | Cleaning Products                  | Class                 | UA          | GA         | GA         | GA          |        |
|   |               | Swimming Pool Salts                | Class                 | UA          | GA         | GA         | GA          |        |
|   |               | Low Concentration acids and bases  | Class                 | ULA         | GLA        | GLB        | GLA         |        |
|   |               | High Concentration acids and bases | Class                 | UHA         | GHA        | GHB        | GHA         |        |
| Stain Resistance                                | ISO 10545-14  | Visual Control                     | Class                 | 5           | 5          | 5          | 5           |        |
| Lead and Cadmium Release                        | ISO 10545-15  | Lead Concentration                 | mg/dm <sup>2</sup>    | <0,01       | <0,01      | <0,01      | <0,01       |        |
|   |               | Cadmium Concentration              | mg/dm <sup>2</sup>    | <0,001      | <0,001     | <0,001     | <0,001      |        |
| UV Resistance                                   | DIN 51094     | Color Change                       | -                     | No Change   | No Change  | No Change  | No Change   |        |
| Anti-slip Properties <sup>(3)</sup>             | DIN 51130     | Critical Angle with footwear       | Class                 | R9          | R9         | -          | R10         |        |
|   | DIN 51097     | Critical Angle barefoot            | Class                 | A           | A          | -          | A           |        |
|   | ANSI A137.1   | Dynamic Coefficient of Friction    | -                     | 0,41 - 0,57 | 0,42       | 0,21       | 0,53        |        |
|   | UNE-ENV 12633 | Slip resistance (Pendulum Method)  | Class                 | 2           | 1          | 0          | 2           |        |

- (1) Slabs without Mesh
- (2) Slabs/tiles Cut-to-Size
- (3) Anti-slip treatment available

Thickness Specific Characteristics

| TEST              | NORM        | DETERMINATION                | Unit              | 3600 x 1200 |     |      |      |      |      | 3200 x 1500 |      |      |       |
|-------------------|-------------|------------------------------|-------------------|-------------|-----|------|------|------|------|-------------|------|------|-------|
|                   |             |                              |                   | 3mm         | 3+  | 6mm  | 6+   | 3+3  | 6+3  | 6+6         | 6+   | 12mm | 20m m |
| Weight            | -           | Grammage                     | Kg/m <sup>2</sup> | 7           | 8   | 14   | 15   | 16   | 23   | 30          | 15   | 29   | 48    |
|                   |             | Mass                         | Kg                | 34          | 38  | 67   | 72   | 76   | 110  | 143         | 77   | 148  | 245   |
| Flexural Strength | ISO 10545-4 | Breaking Strength (Average)  | N                 | 353         | 430 | 1449 | 1807 | 1337 | 2735 | 3149        | 1807 | 5451 | 15748 |
|                   |             | Modulus of Rupture (Average) | N/mm <sup>2</sup> | 48          | 54  | 48   | 53   | 47   | 57   | 47          | 57   | 51   | 55    |

The above information is derived from periodic tests taken on actual product from the manufacturing process. The data is current and accurate to the best of our knowledge. This data sheet and the properties of the product may change without notice. Users, suppliers and retailers should check that the data sheets they have are the latest. For more information on Neolith visit [www.neolith.com](http://www.neolith.com).

| TEST                                      | NORM          | DETERMINATION                     | Unit                  | FINISH     |            |            |             |
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|   |               |                                   |                       | SATIN      | SILK       | POLISHED   | RIVERWASHED |
| Determination of Water Absorption         | ASTM C373     | Vacuum Method*                    | %                     | ≤ 0,1      | ≤ 0,1      | ≤ 0,1      | ≤ 0,1       |
| Relative Resistance to Deep Abrasive Wear | ASTM C1243    | Lost Volume                       | mm <sup>3</sup>       | 112        | -          | -          | -           |
| Linear Thermal Expansion                  | ASTM C372     | Expansion 25 - 100°C (Average)    | 10 <sup>-6</sup> . °C | 5,7        | 5,8        | 5,3        | 6,1         |
| Thermal Shock Resistance                  | ASTM C484     | Damage                            | -                     | Passed     | Passed     | Passed     | Passed      |
| Moisture Expansion                        | ASTM 370      | Elongation                        | mm/m                  | < 0,1      | < 0,1      | < 0,1      | < 0,1       |
| Resistance to Chemical Substances         | ASTM C650     | Visual Control                    | -                     | Passed     | Passed     | Passed     | Passed      |
| Resistance to Staining                    | ASTM C1378    | Visual Control                    | Class                 | A          | A          | A          | A           |
| Crazing Resistance                        | ASTM C424     | Autoclave treatment               | -                     | No Crazing | No Crazing | No Crazing | No Crazing  |
| UV Resistance                             | DIN 51094     | Color Change                      | -                     | No Change  | No Change  | No Change  | No Change   |
| Anti-slip Properties <sup>(3)</sup>       | DIN 51130     | Critical Angle with footwear      | Class                 | R9         | R9         | -          | R10         |
|   | DIN 51097     | Critical Angle barefoot           | Class                 | A          | A          | -          | A           |
|   | ANSI A137.1   | Dynamic Coefficient of Friction   | -                     | 0,52       | 0,42       | 0,21       | 0,53        |
|   | UNE-ENV 12633 | Slip resistance (Pendulum Method) | Class                 | 2          | 1          | 0          | 2           |

- (1) Slabs without Mesh
- (2) Slabs/tiles Cut-to-Size
- (3) Anti-slip treatment available

  
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