# Acrylic Solid Surface specifications

**Standard Size\* Weight**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Standard Thickness/mm | Standard Width/mm | Standard LENGTH/mm |  | Size/mm | Weight/kg |
| 20 | 1370 | 3660 |  | 3660 x 1370 x 20 | TBD |
| 12 | 1370 | 3660 |  | 3660 x 1370 x 12 | TBD |
| 12 | 760 | 3660 |  | 3660 x 760 x 12 | 59 |
| 6 | 760 | 2440 |  | 2440 x 760 x 6 | 20 |
| \* Customized size can be made. Contact your Regional Representative for details | | | | | |

**Material Properties**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Property | Test standard | Unit | 6 mm | 12 mm |
| Raw density | ASTM D792-13 (Method A) | kg/m³ | 1780 | 1750 |
| Weight per square metre | – | kg/m² | 10.7 | 21.0 |
| Flexural modulus of elasticity | ASTM D790-15e2 | GPa | 9.74 | 9.74 |
| Flexural strength | ASTM D790-15e2 | MPa | 49.7 | 49.7 |
| Tensile modulus of elasticity | ASTM D638-14 | GPa | 7.48 | 7.48 |
| Tensile strength | ASTM D638-14 | MPa | 25.3 | 25.3 |
| Rockwell hardness | ASTM D785-08 (2015) (Procedure A) | – | 86 | 86 |
| Barcol hardness | JC/T 908/2013 |  | 60 | 60 |
| Ball drop test | JC/T 908/2013 |  | No Defects | No Defects |
| Water absorption (24h Immersion) | ASTM D570-98(2010)e1 | % | 0.03 | 0.03 |
| IZOD impact strength | ASTM D256-10e1 (Method A) | J/m | 19 | 19 |
| Appearance (Discoloration, Crack) after heat water resistance | JIS K 6902 : 2008 | – | No Defects | No Defects |
| Appearance (Discoloration, Crack) after heat resistance | JIS K 6902 : 2008 | – | No Defects | No Defects |
| Appearance (Discoloration, Crack) after heat resistance | JIS K 6902 : 2008 | – | No Defects | No Defects |
| Accelerated weathering test (\*) - Discoloration | KS M ISO 4892-2 : 2012 | – | No Defects | No Defects |
| Cigarette glow test | JC/T 908/2013 | – | No Defects | No Defects |
| Flammability | UBC8-1 | – | Class A | Class A |
| Fungi and bacterial resistance | ASTM G21,22 | – | No growth | No growth |
| Color stability | NEMA LD-3 | – | Pass | Pass |
| Stain resistance | ANSI 124 | – | Pass | Pass |

**Chemical resistance (DIN 68861)**

|  |  |
| --- | --- |
| SUBSTANCE TESTED | EVALUATION |
| Acetic Acid | No effect |
| Citric Acid | No effect |
| Sodium Carbonate | No effect |
| Ammonia Hydroxide | No effect |
| Alcohol | No effect |
| Red wine | No effect |
| Black Ink | No effect |
| Coffee | No effect |
| Cola | No effect |
| Beer | No effect |
| Hydrogen Peroxide | No effect |
| Hygienic cleaning agent | No effect |
| Lipstick | No effect |
| Olive oil | No effect |
| \* Properties for Pure by Avonite™ Blanco 8940. Values may vary from colors. | |

### Applications

* Kitchen countertops
* Bathroom countertops
* Claddings
* Laboratory
* Worktops
* Commercial spaces