

# CORIAN® SOLID SURFACE PERFORMANCE PROPERTIES

## PHYSICAL PROPERTIES

PROPERTY	TEST	TYPICAL RESULT
Density	ISO 1183	1.75 g/cm <sup>3</sup>
Approximate weight per square meter 6 mm		10.5 kg
Approximate weight per square meter 12 mm <sup>1</sup>		21 kg
Thermal expansion	ASTM D 696	3,9 x 10 <sup>-5</sup> mm/mm °C
Hardness - Rockwell "M" scale	EN ISO 19712-2 (ISO 2039-2)	>85
Hardness - Barcol impressor	EN ISO 19712-2 (ASTM D 2583)	56
Hardness - Ball indentation	EN ISO 19712-2 (ISO 2039-1)	290 N/mm <sup>2</sup>
Surface hardness (Mohs index)	DIN EN 101	2-3

## MECHANICAL PROPERTIES

PROPERTY	TEST	TYPICAL RESULT
Flexural modulus		8800 MPa
Flexural strength	ISO 178	71 MPa
Tensile strength		47 MPa
Tensile elongation at break	ISO 527-2	0.8%
Compressive strength	ISO 604	119 MPa

Typical results for 12mm solid colours unless gauge is specified. Properties may vary by aesthetic. These values are not intended for engineering calculations, if precise calculations are required contact DuPont for additional information.

<sup>1</sup> For information on specific colours, please see *Corian® Solid Surface The Complete Colour Palette*. For information on Fire Performance please see *Corian® Solid Surface Fire Performance* (K-28300-EMEA).

## FITNESS FOR USE

PROPERTY	TEST	TYPICAL RESULT
Light resistance (Xenon Arc)	EN ISO 19712-2	Pass
Weatherability <sup>1</sup>	ASTM G 155	$\Delta E^*_{94} < 5$ in 1,000 hrs.
Resistance to impact by large diameter ball		no breaks
Stain/chemical-resistance test		Pass
Resistance to cigarette burns		Pass
Resistance to dry heat	EN ISO 19712-2	Pass
Resistance to wet heat		Pass
Hot/cold cycle water-resistance test		Pass
Load test		Pass
Dimensional stability		Pass
Resistance to surface wear	ISO 4586-2	0.18% wt/25 revolutions
Fungi and bacteria resistance	ISO 846	Does not support microbial growth
Resistance to boiling water - surface change	DIN ISO 4586 T7	No visible change

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**PLEASE VISIT OUR WEB SITE: [WWW.CORIAN.UK](http://WWW.CORIAN.UK) OR CONTACT YOUR CORIAN® REPRESENTATIVE FOR MORE INFORMATION ABOUT CORIAN® SOLID SURFACE.**

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