

DUPONT™ CORIAN® PERFORMANCE PROPERTIES

PHYSICAL PROPERTIES

Property	Test	Typical Result
Density	ISO 1183	1.7 g/cm ³
Approximate weight per square metre 6 mm		11 kg
Approximate weight per square metre 12 mm [†]		22 kg
Thermal Expansion	ASTM D 696	3.9 x 10 ⁻⁵ mm / mm °C
Hardness - Rockwell "M" Scale	ISO 19712-2 (ISO 2039-2)	>85
Hardness - Barcol Impressor	ISO 19712-2 (ASTM D 2583)	56
Hardness - Ball Indentation	ISO 19712-2 (ISO 2039-1)	290 N/mm ²
Surface hardness (Mohs index)	DIN EN 101	2-3

MECHANICAL PROPERTIES

Property	Test	Typical Result
Flexural modulus	ISO 178	8800 MPa
Flexural strength		71 MPa
Tensile strength	ISO 527-2	47 MPa
Tensile elongation at break		0.8%
Compressive strength	ISO 604	119 MPa

FITNESS FOR USE

Property	Test	Typical Result	
Light Resistance (Xenon Arc)	ISO 19712-2	Pass	
Weatherability [†]	ASTM G 155	$\Delta E_{94}^* < 5$ in 1,000 hrs.	
Resistance to impact by large diameter ball	ISO 19712-2	no breaks	
Stain/chemical-resistance test		Pass	
Resistance to cigarette burns		Pass	
Resistance to dry heat		Pass	
Resistance to wet heat		Pass	
Hot/cold cycle water-resistance test		Pass	
Load test		Pass	
Dimensional stability		ISO 4586-2	Pass
Resistance to surface wear			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	

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.

† For information on Fire Performance please see *DuPont™ Corian® Fire Performance* (K-28300-EMEA).

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