

DUPONT™ CORIAN® PERFORMANCE PROPERTIES

PHYSICAL PROPERTIES

Property	Test	Typical Result
Density	ASTM D792	1.7 g/cm ³
Approximate weight per square foot ¼" (6 mm)		2.2 lbs.
Approximate weight per square foot ½" (12 mm)		4.4 lbs.
Thermal Expansion	ASTM D696	3.9 x 10 ⁻⁵ in./in.°C (2.2 x 10 ⁻⁵ in./in.°F)
Hardness - Rockwell "M" Scale	ASTM D785	>85
Hardness - Barcol Impressor	ISO 19712-2 (ASTM D2583)	56

MECHANICAL PROPERTIES

Property	Test	Typical Result
Flexural Modulus	ASTM D790	1.2 x 10 ⁶ psi
Flexural Strength		10,000 psi
Tensile Modulus	ASTM D638	1.5 x 10 ⁶ psi
Tensile Strength		6,000 psi
Tensile Elongation		0.4 % min.
Compressive strength	ASTM C365	16,000 psi

FITNESS FOR USE

Property	Test	Typical Result
Light Resistance (Xenon Arc)	ISO 19712-2	Pass
Weatherability	ASTM G155	ΔE* ₉₄ <5 in 1,000 hrs.
Ball Impact Resistance: Sheets No fracture—½ lb. ball - ¼"	NEMA LD 3-2005, Method 3.8	36 in. (No failure at height)
Ball Impact Resistance: Sheets No fracture—½ lb. ball - ½"		144 in. (No failure at height)
Wear and Cleanability	CSA B45.5-11/ IAPMO Z124-2011	Pass
Stain Resistance		Pass
Stain/chemical-resistance test	ISO 19712-2	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		Pass
Resistance to surface wear	ISO 4586-2	0.18 % wt/25 revolutions
Fungal Resistance	ASTM G21	ASTM Rating of 0, No observed growth on product at 100x power
Bacterial Resistance	ASTM G22	No observed growth on product at 100x power
Boiling Water Resistance	NEMA LD 3-2005	No visible change
High Temperature Resistance		No change
Flammability: All colors	NFPA 101* Life Safety Code* (ASTM E 84, NFPA 255 & UL 723)	Class I (Class A)
Flame Spread Index		<25
Smoke Developed Index		<25

Typical results for 12 mm solid colors 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. New York City Material Equipment Acceptance (MEA) number is 272-97-M. Sinks and lavatories meet CSA B45.5-11/IAPMO Z124-2011, ANSI Z-124.3 and ANSI Z124.6 standards for plastic sinks and lavatories.



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