

PERFORMANCE PROPERTIES OF CORIAN®

Property	Typical Result	Test
Tensile Strength	6,000 psi	ASTM D 638
Tensile Modulus	1.5 x 10 ⁶ psi	ASTM D 638
Tensile Elongation	0.4% min.	ASTM D 638
Flexural Strength	10,000 psi	ASTM D 790
Flexural Modulus	1.2 x 10 ⁶ psi	ASTM D 790
Hardness	>85	Rockwell "M" Scale ASTM D 785
	56	Barcol Impressor ASTM D 2583
Thermal Expansion	3.02 x 10 ⁻⁵ in./in./°C (1.80 x 10 ⁻⁵ in./in./°F)	ASTM D 696
Gloss (60° Gardner)	5–75 (matte—highly polished)	ANSI Z124
Light Resistance (Xenon Arc)	No effect	NEMA LD 3-2000 Method 3.3
Wear and Cleanability	Passes	ANSI Z124.3 & Z124.6
Stain Resistance: Sheets	Passes	ANSI Z124.3 & Z124.6
Fungus and Bacteria Resistance	Does not support microbial growth	ASTM G 21 & G 22
Boiling Water Resistance	No visible change	NEMA LD 3-2000 Method 3.5
High Temperature Resistance	No change	NEMA LD 3-2000 Method 3.6
Izod Impact (Notched Specimen)	0.28 ft.-lbs./in. of notch	ASTM D 256 (Method A)
Ball Impact Resistance: Sheets	No fracture—1/2 lb. ball: 1/4" slab—36" drop 1/2" [†] slab—144" drop	NEMA LD 3-2000 Method 3.8
Weatherability	ΔE* ₉₄ <5 in 1,000 hrs.	ASTM G 155
Specific Gravity [†]	1.7	
Water Absorption	Long-term	ASTM D 570
	0.4% (3/4")	
	0.6% (1/2" ^{††})	
	0.8% (1/4")	
Toxicity	99 (solid colors)	Pittsburgh Protocol Test ("LC ₅₀ " Test)
	66 (patterned colors)	
Flammability	All colors (Class I and Class A)	ASTM E 84, NFPA 255 & UL 723
	Flame Spread Index	
	<25	
	Smoke Developed Index	
	<25	

[†]Approximate weight per square foot 1/4" (6 mm) 2.2 lbs. • 1/2"^{††} (12.3 mm) 4.4 lbs.

Shapes meet or exceed the ANSI Z124.3 and ANSI Z124.6 standards for plastic sinks and lavatories.

NEMA results based on the NEMA LD 3-2000

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