

# DuPont Surfaces

## DUPONT™ CORIAN® PERFORMANCE PROPERTIES

### TECHNICAL BULLETIN

Property	Typical Result	Test	
Tensile Strength	6,000 psi	ASTM D 638	
Tensile Modulus	1.5 x 10 <sup>6</sup> 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 <sup>6</sup> psi	ASTM D 790	
Hardness	>85	Rockwell "M" Scale ASTM D 785	
	56	Barcol Impressor ASTM D 2583	
Thermal Expansion	3.02 x 10 <sup>-5</sup> in./in./°C (1.80 x 10 <sup>-5</sup> 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" <sup>††</sup> slab—144" drop	NEMA LD 3-2000 Method 3.8	
Weatherability	∅E* <sub>94</sub> <5 in 1,000 hrs.	ASTM G 155	
Specific Gravity <sup>†</sup>	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 <sub>50</sub> " 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

<sup>†</sup>Approximate weight per square foot 1/4" (6 mm) 2.2 lbs. • 1/2" (12 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



corian®