

PHYSICAL PROPERTY DATA SHEET

Property	Typical Result	Test Procedure
Flexural Strength	>5300 psi	ASTM D 790
Flexural Modulus	5.3–5.7 E6 psi	ASTM D 790
Flexural Elongation	> 0.1 %	ASTM D 790
Compression Strength (Dry)	27,304 psi	ASTM C 170
Compression Strength (Wet)	24,443 psi	ASTM C 170
Hardness	7	Mohs Hardness Scale
Thermal Expansion	1.45 x 10 <sup>-5</sup> in/in/deg C	ASTM D 696
Gloss (60 –degree Gardner)	45–50	ANZI Z124
Colorfastness	Passes	ANZI Z124.6.5.1
Wear and Cleanability	Passes	ANZI Z124.6.5.3
Stain Resistance	Passes	ANZI Z124.6 (stain 5.2, chemical 5.5, cigarette 5.4 resistances)
Fungal and Bacterial Resistance	No Growth	ASTM G 21 & ASTM G 22
High Temperature Resistance (365 deg.F)	None to slight effect	NEMA LD 3.3.6*
Boiling Water Resistance	None to slight effect	NEMA LD 3.3.5*
Freeze-Thaw Cycling	Unaffected	ASTM C 1026
Point Impact	Passes	ANZI Z124.6.4.2
Ball Impact	164 in	NEMA LD 3.3.8*
Slip Resistance	Above 0.80 for textured models	ASTM C 1028
Static Coefficient of Friction (as received)	0.89/0.61 (wet/dry)	ASTM C 1028
Static Coefficient of Friction (with renovator)	0.87/0.65 (wet/dry)	ASTM C 1028
Abrasion Resistance	139	ASTM C 501
Specific Gravity	2.44	ASTM D 792
Density	2431 kg/m <sup>3</sup>	
Water Absorption	0.12%	ASTM C 373
Long- and Short-term	< 0.04%	ASTM D 570
Moisture Expansion	<0.01% on average	ASTM D 370
Toxicity	Passes, LC <sub>50</sub> = 68–128	Pittsburgh Protocol
Flammability	For all colors tested (Class I and Class A)	ASTM E 84, UL 723 & NFPA 255
Flame Spread Index	FSI = <10 for 3 cm and <15 for 2 cm	ASTM E 84, UL 723 & NFPA 255
Smoke Developed Index	SDI = <50 for 3 cm and <100 for 2 cm	ASTM E 84, UL 723 & NFPA 255
Nominal Thickness	2 cm and 3 cm	
Nominal Weight	10 lb/ft <sup>2</sup> (2 cm): 15 lb/ft <sup>2</sup> (3 cm)	

\* NEMA results based on the NEMA LD 3-2000

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