

Property	Typical Results Foundations	Typical Results Studio Collection Class I	Typical Results Studio Collection Class III	Test Method
General				
Thickness Tested	0.500"	0.500"	0.500"	-
Specific Gravity	1.6	1.6	1.3	ASTM D-792
Water Absorption (24hrs.)	0.04%	0.03%	0.04%	ASTM D-570
Mechanical				
Tensile Strength	4,000 psi	3,700 psi	2,300 psi	ASTM D-638
Tensile Modulus	1,100,000 psi	1,200,000 psi	730,000 psi	ASTM D-638
Tensile Elongation	2.1%	0.38%	0.34%	ASTM D-638
Flexural Strength	8000 psi	6500 psi	4100 psi	ASTM D-790
Flexural Modulus	1,100,000 psi	1,200,000 psi	720,000 psi	ASTM D-790
Barcol Hardness	60	60	45	ASTM D-2583
Rockwell Hardness	86	99	105	ASTM D-785
Un-notched Izod Impact	1.40 ft.lbs./inch	0.67 ft.lbs./inch	0.42 ft.lbs./inch	ASTM D-4812
Notched Izod Impact	0.14 ft.lbs./inch	0.15 ft.lbs./inch	0.15 ft.lbs./inch	ASTM D-256
Ball Impact (1/2 lb. ball)	>150 Inches	>150 Inches	>150 Inches	NEMA LD3-3.8
Total Volatile Organic Compound	69.1 µg/m ² /hr	3.9 µg/m ² /hr	13.9 µg/m ² /hr	ASTM-D5116
Thermal				
DTUL @ 264 psi	200 °F	180 °F	175 °F	ASTM D-648
Coefficient of Thermal Expansion	2.3 X 10 ⁻⁵ in./in.°F	2.1 X 10 ⁻⁵ in./in.°F	2.9 X 10 ⁻⁵ in./in.°F	ASTM D-696
Boiling Water Resistance	No Effect	No Effect	No Effect	ISSFA SST 8.1-00
High Temperature Resistance	No Effect	No Effect	No Effect	ISSFA SST 9.1-00
Flame Spread	<25	<25	>75	ASTM E 84
Smoke Generation	<25	<25	>450	ASTM E 84
Combustion Toxicity	96 (solid colors) 67 (patterns)	62.25	19.33	Pittsburgh Protocol (LC ₅₀ Test)
New York City Adm. Code 27-131 ⁺				
Flame Spread	20	20	180	MEA 64-96-M
Smoke Density	155	155	>450	MEA-142-96-M
Surface				
Cleanability	Pass	Pass	Pass	NEMA LD3
Stain Resistance	No Effect	No Effect	No Effect	NEMA LD3-3.9
Stain Resistance	Pass	Pass	Pass	ANSI Z 124.3
Consistency of Color (same sheet)	Pass	Pass	Pass	ISSFA SST 2.1-00
Light Resistance	No Effect	No Effect	No Effect	ISSFA SST 7.1-00
Food Zone Use	NSF 50 & 51 Approved	NSF 50 Approved	NSF 50 Approved	NSF
Fungal/Bacterial Resistance	Does not support microbial growth	Does not support microbial growth	Does not support microbial growth	ASTM G-21
HIV-Resistance	Disinfected surface does not support HIV	Disinfected surface does not support HIV	Disinfected surface does not support HIV	Protocol 61-074-1
Aircraft: FAA Part 23 or 25	Acceptable	Acceptable	Acceptable	FAR 25.853
Federal Motor Vehicle Safety Stnd.	Pass	Pass	Pass	
Canadian Motor Vehicle Safety Stnd.	Pass	Pass	Pass	