Series 8000 Door - FRP Test Results

CMI Architectural Products, Inc. utilizes a superior FRP (fiberglass reinforced plastic) interior and exterior skin in the assembly of the Series 8000 Door. The FRP material is U.V. stabilized, exhibits superior stain and chemical resistance and is extremely durable with surface hardness comparable to glass. Test results are provided from a laboratory independent from CMI.

A. Product Description:

Panel Thickness: 0.120"

Panel color: Integral, "high performance" pigments, light stable

Surface texture: embossed (pebble like), matt finish Reinforcement: random chopped fiberglass roving fibers

B. Physical Properties

PROPERTY	ACHIEVED VALUE	TEST METHOD
IZOD Impact strength Water Absorption (%) Tensile Strength Tensile Modulus Flexural Strength	20 ft. lbs / in. notch 0.20 (24 hrs @ 77°F) 14,300 PSI 1,400 PSI 24,000 PSI	ASTM D 256 ASTM D 570 ASTM D 638 ASTM D 638 ASTM D 790
Flexural Modulus Barcol Meter Hardness	0.09 X 10 ⁶ PSI 55	ASTM D 790 ASTM D 2583

C. Stain Resistance (Cleanability)

	SURFACE CHANGE (24 hrs) ASTM D 1308
Blood (beef)	Superficial
Crayon (green)	Superficial
Oil (crankcase)	Superficial
Tea	Unaffected
Tomato Acid	Unaffected

D. Chemical Resistance

TEST AGENT	EFFECT (4 hr exposure)	
Acitic Acid	Excellent	
Ethyl Alcohol (50%)	Good	
Formaldehyde	Excellent	
Hydrocloric Acid (10%)	Excellent	
Mineral Oil	Excellent	
Nitric Acid (40%)	Excellent	
Sodium Hypochloride Solution	on (6%) Excellent	
Sulfuric Acid (40%)	Excellent	
Turpentine	Good	
Key: Excellent = Suitable fo	ruse	
Good = Probably suitable for use; test specific conditions		
Fair = Probably unsuitable for use; further testing suggested		
Poor = Unsuitable for u		

E. Flame / Smoke Rating: Flame spread - 145, Smoke developed - 345, Class C per ASTM E84-79a

Note: All information and data is offered in good faith, but without guarantee. Consult CMI for specific use and product application.