

# Data Sheet – Stained Glass Inc. Polymer Stained Glass Panels

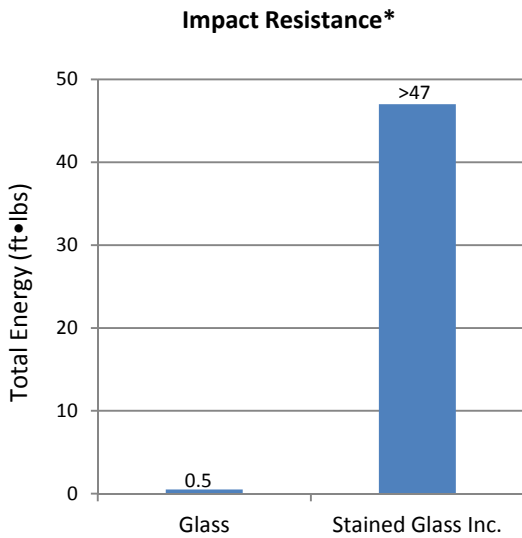
## Stained Glass Window Inserts

### Product Definition

Stained Glass Inc. stained glass panels- Panel is a laminated polymer stained glass with infused mineral pigment colors and a textured surface.

Thickness is ¼” nominal. Frame to be aluminum channel with an anodized black finish. Aluminum frame to be 6063 Alloy.

Typical Properties			
Property		Units	Values
<b>Physical</b>			
Frame	Black Anodized U-Channel	-	-
Frame Width	1/2”	-	-
Frame Depth	1/2”	-	-
Frame Thickness	1/16”	-	-
Material	Laminated Polymer Glass	-	-
Specific Gravity		-	1.2
Water Absorption, 24 hours		%	0.15
<b>Mechanical</b>			
Tensile Strength, Ultimate		psi	9,500
Tensile Strength, Yield		psi	9,000
Tensile Modulus		psi	340,000
Flexural Strength		psi	13,500
Compressive Strength		psi	12,500
Izod Impact Strength, Unnotched@ 0.125”		ft-lbs/in	60 (no failure)
Shear Strength, Ultimate		psi	10,000
<b>Thermal</b>			
Coefficient of Thermal Expansion		in/in/°F	3.75 x10 <sup>-5</sup>
Coefficient of Thermal Conductivity		BTU·in/hr·ft <sup>2</sup> ·°F	1.35
Brittleness Temperature		°F	-200



\*Instrumental Impact per sample thickness 0.125\* nominal

**Standard Products Comparison**

Property	Drop Ball Test, 0.5 lbs	Stained Glass Inc	Glass	Units
Impact Resistance	No Break	0.7	ft-lbs	ft-lbs
Weight	0.125"	0.78	1.6	lbs/ft <sup>2</sup>
Thermal Expansion Rate	-	3.75 x10 <sup>-5</sup>	5.0 x10 <sup>-6</sup>	in/in/°F
U Factor-Summer	0.236"	0.85	0.92	BTU·in/hr·ft <sup>2</sup> ·°F
U Factor-Winter	0.236"	0.92	1.02	BTU·in/hr·ft <sup>2</sup> ·°F
Sound Transmission Class	0.236"	29	27	

**Regulatory Compliance and certifications**

Meets the requirements of CPSC 16 CFR 1201 Category I and Category II: Safety Standard for Architectural Glazing Materials

Meets the requirements of ANDI Z97.1-2004: American National Standard for Safety Glazing Materials Used in Buildings- Safety Performance Specifications and Methods of Test. Class A

Burglary Resistant Glazing Materials



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