

# Krinklglas® Specifications

**GENERAL:** Krinklglas® is a fiberglass reinforced copolymer UV stabilized plastic paneling for use in all standard glazing applications. Standard panel sizes are 4' x 8', 4' x 10', 5' x 8' and 5' x 10', available in 1/8", 3/16", and 1/4" thicknesses. PAN-L-BLOK patterns can be made in 6", 8" or 12" squares. Krinklglas® is available nationwide.

**IMPACT RESISTANCE:** Krinklglas®, being virtually unbreakable, can withstand impact from such objects as projected stones, bricks and bottles without shattering. The multifaceted textured surfaces "hide" scratches, and surface luster can be restored by applying a thin polyurethane coating as needed.

**FLEXIBILITY:** Krinklglas® panels may be cold-bent or flexed for two-dimensional curved installations. Where site curvatures may exceed the natural flex range of a given Krinklglas® panel size or thickness, panels can be custom made to the desired radius. Contact Dimensional Plastic Corp. for further details on panel bending.

**INSTALLATION:** Krinklglas® panels are easily installed using any standard or custom framing or mounting if allowance is made for expansion and contraction of the panel and the variation of thickness due to the textured panel surfaces. Unlike typical glass blocks, PAN-L-BLOK panels do not require messy, labor-consuming mortar work and related costs.

A clearance of 0.015" per foot on all dimensions is recommended, which amounts to less than 3/16" in a 10' panel length. Minimum clearance should be 1/8".

For larger area installations, bowing or sheet deflection must be taken into account, especially for outdoor installations where the panel has to withstand wind forces.

The edge engagement or enlargement around the perimeter of the panels must be a minimum of 3/8" for spans under 24"; above this size, the edge engagement must be proportionately increased until a 1" stop is to be used in connection with 4' x 10' length for exterior applications.

The two prism-like multifaceted or textured Krinklglas® surfaces provide the unique light dispersion effect, but also create up to 20% variations in the actual panel thickness in some areas. This thickness variation should be considered when inserting panels into frames, extrusions, etc.

No special glazing procedures, framing, extrusions, tape or mastic are needed with Krinklglas®. Any quality, construction grade silicone sealant may be used to provide for any expansion or contracting without fear of leakage.

Krinklglas® can be cut, drilled and worked with common carpentry tools. Its fiberglass reinforcement prevents any shattering or breaking. Panels can be cut on the job site by hand, utilizing a circular, band or saber saw. For best results, use a carbide tipped or carborundum blade. For bolted or floating assemblies, use a flexible strip around both sides of the inserted panel. The bolt holes must be drilled with an outside diameter (O.D.) equal to the O.D. of the screw or bolt plus the allowance for expansion and contraction. Use a flexible neoprene type gasketing washer in the hole of the panel to provide solid fitness and to avoid stresses when the bolts or screws are tightened. Bolts or screws should be tightened only enough to prevent leakage, and must not be torqued or over-tightened.

**CLEANING:** Krinklglas® is resistant to most acids, mild alkalies and petroleum-based solvents. For basic cleaning, use mild soap and water. Graffiti, paint and other problem materials can be easily removed using common, non-abrasive cleansers or solvents.

**WARRANTY:** Krinklglas® panels are custom made with quality materials and UV inhibitors. Panels are warranted against manufacturing defects. Product is warranted against severe color fading for five years from date of purchase.

**TECHNICAL DATA:** Krinklglas® fiberglass reinforced plastic panels meet the requirements of the South Florida Building Code, subsections 3505.1 and 3502.2 as specified in Metropolitan Dade County (State of Florida) Product Acceptance No. 91-0820.2.

## TECHNICAL DATA (standard 1/8" panel)

Tensile strength	ASTM D-638	8,740
Flexural strength	ASTM D-790	17,800
Flexural modulus	ASTM D-790	721,000
Comprehensive strength	ASTM D-695	18,600
Static load (applied pressure 20 per min.)		480 lbs. psf
Flammability (general)	D-635	0.80 in./min.
Break-safe characteristics	ANZ97.1-1972	

## OTHER PROPERTIES (standard 1/8" panel)

Dimensional stability	-40 to +266 °F
Hardness - Barcol	40 - 45
Thermal expansion	1.1 x 10 <sup>-5</sup> F
Water absorption	0.08%
Weight per square foot	14.3 ounces
Insulation value (U-factor)	1.00 BTU/hr/sq. ft./°F/in.
Lead-free	

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