

Ceramic Frit

Product Description

Pigmented glass enamel permanently fused to the glass surface fired at temperatures in excess of 1200°F. Goldray glass coated with Ceramic frit is available in combinations of solid colors, metallic colors and translucent colors. Non-heavy metal containing frits are used as standard practice, however, some colors may require the use of lead and cadmium; their use will be reported to the customer prior to mockup stage.

Features and Benefits

This versatile product can be applied to glass for a cost effective, low maintenance solution to many design needs. Goldray products produced with ceramic frit will be highly durable, with abrasion resistance, a long lifetime, and the ability to withstand a large range of temperatures.

Applications

Wall Cladding, Signage, Office Partitions, Balustrades, Furniture, Spandrel available in both laminated and monolithic forms.

Maintenance

Follow Goldray's Standard Glass Cleaning Instructions for proper maintenance of glass coated with ceramic frit.

Limitations

- ▶ Glass Thicknesses: 3mm (1/8") to 19mm (3/4")
- ▶ Patterns: Large selection of in-house patterns and comprehensive graphics lab for creating custom patterns.
- ▶ Colors: Few restrictions on a large color pallet.
- ▶ Sizes: Screen printed glass can be produced from 12" x 12" up to 72" x 144" subject to heat treating limitations (See Technical Information- Heat Treated Glass). Rice Paper patterns are available up to 48"x120". Complex patterns with small dimensions of more than 59" are subject to possible faint splice lines.
- ▶ Edgework: Standard edge for screen printed glass is a seamed edge. Polishing and grinding are also available.
- ▶ Fabrication: Fabrication required for installation is also available.
- ▶ Surface: Exterior applications must be on surface #2 and not exposed to the elements.

Warranty

A typical 5 year limited warranty is available for Goldray ceramic fritted glass. Contact the Goldray sales office for specific terms and conditions.

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Technical Data

Film Thickness: ~15 microns

Acid resistance: 15 min. 10% Citric Acid produces slight iridescence.

Alkali Resistance: <.10 weight loss

Heavy Metal Release: N/A

Average Opacity: Varies upon pattern and application

Color Tolerance: 1 Delta E (CIE LAB) (ASTM D 2244)

Applicable Industry Standards

ASTM C1036 - Standard Specification for Flat Glass

ASTM C1048 - Standard Specification for Heat-Treated Flat Glass--Kind HS, Kind FT Coated and Uncoated Glass