



Flame Resistant Board (FRB) is a premium grade twin-wall board made with a block-copolymer polypropylene resin with an unique Coroplast® flame inhibiting additive.

### **UL Test Procedures**

UL94 vertical burn

Test method: 10 second applications of a ¾ inch Bunsen flame to a vertical piece of ½ inch wide plastic. The total burn time of both applications is added together. Test is repeated 10 times.

Criteria: V-2; flame extinguishes self within 25 seconds per test strip. Drips are allowed to ignite cotton.

Note: FRB extinguishes self within 25 seconds. V-0 requires flame extinguish within 5 seconds; however, drips cannot ignite cotton.

### **Printing on FRB**

Coroplast® FRB requires inks formulated for this type of product. The recommended solvent based screen printing inks formulated for Coroplast® should be used for best appearance and adhesion.

Coroplast® FRB is corona treated full width on both surfaces. Corona treatment is needed for all printing applications. See Coroplast® Screen Printers Guide and Technical Bulletin CSS-006 "Screen Printing Inks" for additional information on printing on Coroplast®. It is recommended that ink tests be performed prior to production of parts.

Corona treatment also improves the performance of most adhesives.

### **Fabrication with Coroplast® FRB**

Coroplast® FRB can be die cut or slit on standard conversion equipment.

Coroplast® FRB have a higher mineral content than regular Coroplast® due to the flame inhibiting additives. Higher mineral content usually increases stiffness and decreases flexibility which may require adjustments to die cutting equipment to maintain optimum performance. Die cutting and creasing becomes easier as the temperature increases. It is recommended to die cut and crease Coroplast® FRB at room temperature or warmer for optimum performance.

For additional information on fabricating with Coroplast® FRB, please refer to Coroplast® technical bulletin CSS-005 General Conversion Information.

### **Static Build-up**

Plastics develop static charge during any handling. This build-up becomes most evident during screen printing or converting.

Coroplast® FRB have a static-free additive which minimizes the build-up by quickly dissipating the charge. The static-free additive requires moisture in the air; therefore, the more moisture in the air the better the system works.

### **Abuse Resistance**



Coroplast® FRB can be cleaned with soap and water and most solvents without affecting the sheet properties or appearance. See Technical Bulletin CSS-02 for additional information on Coroplast® resistance to solvents.

Coroplast® board is resistant to dings and punctures.

General properties of the copolymer polypropylene resin used in FRB is contained in Coroplast® Technical Bulletin CSS-001.