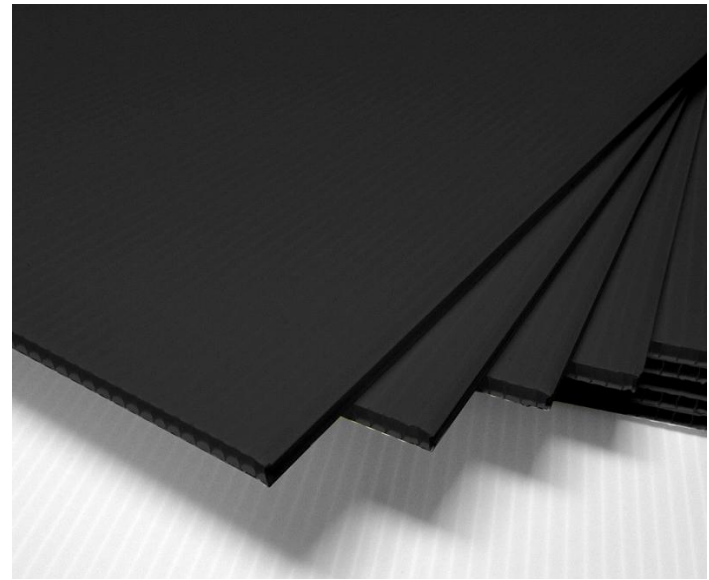


# Shelter Shutters™

Fire Rating Technical Data

US Pat. No. 9,243,445

Manufactured exclusively by  
Belmar Shade and Blind Corp  
703 Main St Belmar, NJ 07719  
732-681-4900



## **USA:** Fire Rating NFPA 701

Hi-Core® FR500 Flame Retardant sheets meet all of the criteria of the three tests required for approval as "light transmitting plastic sheets", as required by US Codes, (BOCA1, SBCC12, ICB03).

**TEST #1: ASTM E 84, Surface Burning Characteristics**

**FR500 results:** FSC1: 45, Smoke Developed: 305

US Authorities having jurisdiction usually refer to the following categories

**TEST #2: ASTM D 635-03, Rate of Burning**

All test samples self-extinguished before the flame reached the 1" (25mm) limit. **FR500** meets the requirements for a CC1 rating (<1"/minute).

**TEST #3: ASTM D 1929-1996 (re-approved 2001) Standard Test Method for Determining Ignition Properties of Plastics.**

Code requires self-ignition higher than 650° F.

**FR500 results:** The self-ignition temperature: 716° F, (380° C).

## **Canada:**

**TEST: CAN/ULC-S102.2 Surface Burning Characteristics**

Ontario Building Code (3.1.13.2) references Maximum Flame-Spread Ratings (FSC1) for walls and ceilings in Group A, Division 1, sprinklered-150, unsprinklered-75.

**FR500 results:** FSC1: 65, Smoke Developed: 330