

Acrylic Fire Rating Information

Building codes recognize that thermoplastics do not meet the requirements of Chapter 8 "Interior Finishes" as per ASTM E 84 and, therefore, Chapter 26 "Light Transmitting Plastics" had been established. Chapter 26 "Light Transmitting Plastics" provides criteria for building applications using acrylic and polycarbonate material. Approved plastics for Chapter 26 "Light Transmitting Plastics" must have a self-ignition temperature greater than 650 degrees Fahrenheit in accordance with ASTM D 1929, a smoke density rating less than 75% in accordance with ASTM D 2843 and a burning rate of less than 2.5 inches per minute in accordance with ASTM D 635. If the extent of burn measured in the ASTM D 635 test is less than 1.0 inch, the material is classified as a Class C1 or CC1 material. If the extent of burn is greater than 1.0 inch, or the burn rate is less than 2.5 inches per minute, it is classified as a Class C2 or CC2 material.

ACRYLITE® GP acrylic sheet has a self-ignition temperature of 910 degrees Fahrenheit, a smoke density rating of 10.3% and a C2 or CC2 classification for a thickness of 0.250".

ACRYLITE® FF acrylic sheet has a self ignition temperature of 850 degrees Fahrenheit, a smoke density rating of 4.8% and a C2 or CC2 classification for a thickness of 0.250".