

BURNING CHARACTERISTICS OF LUMASITE® SHEETS AND DIFFUSERS

Revision 11/22

This bulletin discusses the burning characteristics of LUMAsite® reinforced acrylic sheets and diffuser panels.

All varieties of LUMAsite® sheets are available in a general purpose version that is not fire-rated in any thickness. The self-ignition temperature of the general purpose product is 990° F. The flash ignition temperature is 780° F. The general purpose version exhibits a burning rate consistent with a CC2 classification when tested by the ASTM D635 method.

Some varieties of LUMAsite® sheets are available in a Type FR version. The Frost-SOS Type FR, Parchment-SOS Type FR and White 1000-SOS Type FR are all readily available. The self-ignition temperature of the Type FR is 900° F. The flash ignition temperature is 870° F.

Values for flame spread and smoke generated by the ASTM E84 test method are tabulated below for the Type FR in .125" and .250" thicknesses.

	Thickness	
	.125"	.250"
Flame Spread Value	110	115
Smoke Developed Value	200	250

Based on these test results, the Type FR falls into a Class C Interior Wall and Ceiling Finish as defined by NFPA 255.

In ceiling applications, diffuser panels cut from LUMAsite® sheets (general purpose or Type FR) do not drip melted polymer when they burn, and ordinarily do not fall from the installation in a fire situation.

These materials are combustible. The test results reported here are based on specific test methods, and are not indicative of burning characteristics in all fire situations.

Request additional information or copies of test reports by fax to 631-422-2811 or email to lumasite@aol.com.

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