



# Material Data: Rigid Products

## Rigid Material Choices for BrightView Diffuser Products

BrightView diffusers are offered on a variety of materials including film, semi-rigid, and rigid sheets to meet most lighting needs. BrightView rigid sheet products are constructed by laminating a thin film to a rigid sheet.



	<b>Acrylic (PMMA) General Purpose (RAXx)</b>	<b>Polycarbonate General Purpose (CGxx)</b>	<b>Polycarbonate Sign Grade (CSxx)</b>
<b>Usage</b>	Highest Efficiency UV Resistant	Impact Resistant	Impact Resistant UV Resistant
<b>Nominal Thickness</b>	1.5 / 2 / 3 / 3.8 mm	1.5 / 2 / 3 mm	3 mm
	.060 / .080 / .120 / .150 in	.060 / .080 / .120 in	.120 in
<b>UV Resistance</b> color change UVA (2400KJ/m <sup>2</sup> )	$\Delta a^* = -1.6$	$\Delta a^* = -2.0$	$\Delta a^* = -1.0$
	$\Delta b^* = 6.8$	$\Delta b^* = 16$	$\Delta b^* = 6$
<b>Temperature Range</b>	-40°C - 70°C	-40°C - 80°C	-40°C - 80°C
<b>UL-94 Flammability</b> Rating of substrate material <sup>1</sup>	HB	HB	HB
<b>Glow-Wire Flammability</b> Rating of substrate material <sup>1</sup> (IEC 60695-2-12) GWFI	N/A	800°C (1.5 mm) 850°C (≥ 2.0 mm)	850°C
<b>Outdoor Weatherability</b>	F1	F1	F1

<sup>1</sup> UL Rating is for substrate material as provided by substrate vendor. Yellow cards for these substrates are available. BrightView diffusers have not been tested or rated by UL. Work with a BrightView applications engineer to discuss your material needs.

