



Material Data: Film Products

Film 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. Optical performance is nearly identical for the various materials.



	PET (standard)	UV PET	Semi-Rigid Polycarbonate (PC)
Usage	Excellent for indoor LED applications	UV resistant for LED or Fluorescent	Low cost solution for downlights, PAR, panels, etc.
Nominal Thickness	.075 / .175 mm	.127 mm	.255 / .510 / .765 mm
	.003 / .007 in	.005 in	.010 / .020 / .030 in
Bend Radius¹	0.5 in	0.5 in	1.5 / 1.5 / 2.25 in
UV Resistance color change UVA (2400KJ/m ²)	$\Delta a^* = -2.1$	$\Delta a^* = -0.4$	$\Delta a^* = -4.0$
	$\Delta b^* = 8$	$\Delta b^* = 6$	$\Delta b^* = 21$
Temperature Range	-40°C - 80°C	-40°C - 80°C	-40°C - 80°C
UL-94 Flammability Rating of substrate material ²	VTM-2	VTM-2	V-2

1 Bend Radius values are at room temperature operation. Radius should increase as temperature increases.

2 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. BrightView applies a thin (approx. 50 micron) coating to these substrate materials.

