

CoreLed Systems, LLC

Optical Material Properties

Comparison Table

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Our Optical Materials

<i>Material</i>	Pmma	PC	Silicone
<i>Creator</i>	Arkema	Makrolon	Dow
<i>Product Name</i>	V825	AI 2647	MS 4007

Physical Properties

<i>Specific Gravity (g/cm³)</i>	1.19	1.2	1.08
<i>Tensile strength at break (psi)</i>	10,200	9,400	1,700

Optical Properties

<i>Transmission</i>	92% @ 125 mil	87% @ 125 mil	91% @ 380 nm
			93% @ 450 nm
			94% @ 760 nm
<i>Refractive Index</i>	1.49	1.587	1.41
	<i>Haze</i>	2%	0.50%
			N/A

Thermal Properties

<i>Max Use Temp (°F)</i>	215	275	392
<i>Thermal Conductivity BTU/(hr ft °F)</i>	1.3	1.4	N/A
<i>Specific Heat J/(g °C)</i>	N/A	1.17	1.39