

PHYSICAL PROPERTIES

	FILM THICKNESS (MICRONS)	APPEARANCE	SINGLE OR MULTI-PLY	TENSILE STRENGTH	BREAK STRENGTH	ELONGATION AT BREAK	PEEL STRENGTH g/inch (lb/inch)	PUNCTURE STRENGTH
SCL PS4	.004" (100)	Clear	Single	33,100	132	167%	>3200 (>7)	74
SCL SR PS4	.004" (100)	Clear	Single	33,100	132	167%	>3200 (>7)	74
SCL SR PS6	.006" (150)	Clear	Multi	28,000	168	170%	>3200 (>7)	111
SCL SR PS7	.007" (175)	Clear	Single	27,614	193	211%	>3200 (>7)	121
SCL SR PS8	.008" (200)	Clear	Multi	29,505	235	140%	>2850 (>6.3)	146
SCL SR PS11	.011" (275)	Clear	Multi	27,318	301	159%	>1550 (>3.4)	184
SCL SR PS15	.015" (375)	Clear	Multi	23,345	373	149%	>1550 (>3.4)	226
R-30B SR PS4	.004" (100)	Bronze	Multi	25,714	101	137%	>3200 (>7)	77
R-20 SR PS4	.004" (100)	Silver Reflective	Multi	25,714	101	137%	>3200 (>7)	77
N-1020 SR PS4	.004" (100)	Dark Neutral	Multi	25,714	101	137%	>3200 (>7)	77
N-1035 SR PS4	.004" (100)	Medium Neutral	Multi	25,714	101	137%	>3200 (>7)	77
N-1050 SR PS4	.004" (100)	Light Neutral	Multi	25,714	101	137%	>3200 (>7)	77
NUV-65 SR PS4	.004" (100)	Very Light Neutral	Multi	25,714	101	137%	>3200 (>7)	77
N-1020 SR PS8	.008" (200)	Dark Neutral	Multi	29,505	235	140%	>2850 (>6.3)	146
N-1035 SR PS8	.008" (200)	Medium Neutral	Multi	29,505	235	140%	>2850 (>6.3)	146
N-1050 SR PS8	.008" (200)	Light Neutral	Multi	29,505	235	140%	>2850 (>6.3)	146
R-20 SR PS8	.008" (200)	Silver Reflective	Multi	29,505	235	140%	>2850 (>6.3)	146

Property	Test Method	Units
Film Thickness		Inches (microns)
Tensile Strength	ASTM D882	Pounds per square inch, psi
Break Strength	ASTM D882	Pounds force per inch width
Elongation At Break	ASTM D882	Percent
Peel Strength	ASTM D3330	Grams per inch width (pounds per inch width)
Puncture Strength	ASTM D4830	Pounds force

All LLumar Magnum films comply with ANSI Z97.1 impact test requirements on 1/8" and 1/4" glass. SCL SR PS11 and SCL SR PS15 also comply with CPSC 16CFR1201 Cat II impact requirements on 1/4" glass.

LLumar Magnum films with a Scratch Resistant coating (SR in film name) tested using ASTM D-1044 using 500g weights and CS-10F wheel have shown less than 5% increase in haze after abrasion.

All LLumar Magnum films utilize an acrylic pressure sensitive adhesive system.

Data values are typical and provided for comparison purposes only.

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