

# POLYCARBONATE FILMS

## Properties of JS1501TL Series for Laserable Films

EXIM Transparent Laserable PC Films, both Standard and Antistatic grades, offer unique laser markability to achieve high-resolution performance during personalization for secure documents. Laserable PC films have a thickness range of 30 to 400 µm. Applications include roll or sheet based and produced as matte/matte, velvet/matte or glossy/matte upon request.

PROPERTIES		TEST METHOD	UNIT	VALUE
<b>General Properties</b>				
Gloss, 60° Top side		ISO 2813	Digits	≥10
Gloss, 60° Reverse side		ISO 2813	Digits	≥ 5
Density (20°C method C)		ISO 1183	g/cm <sup>3</sup>	1.2
<b>Mechanical Properties</b>				
Tensile Strength at break	$\frac{MD}{TD}$	ISO 527	MPa	≥50 ≥50
Elongation at break		ISO 527	%	>50
<b>Thermal Properties</b>				
Shrinkage, parallel (130°C 1 h)		DIN 53752	%	<0,5
Shrinkage, across (130°C 1 h)		DIN 53752	%	<0,5
Coefficient of linear thermal expansion, parallel 20 to 120°C		DIN 53752	10 <sup>-6</sup> /K	70
Coefficient of linear thermal expansion, across 20 to 120°C		DIN 53752	10 <sup>6</sup> /K	70
<b>Optical Properties</b>				
Light Transmittance		ISO 13468-2	%	>80
<b>Other Properties</b>				
Water Absorption		ISO 62	%	0,15

- These properties are typical values for 100 µm film; not guaranteed values.
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