



WHITE OPAQUE POLYCARBONATE FILMS

TECHNICAL DATA SHEET

Our proprietary formulations and custom manufacturing capabilities deliver exceptional performance.

Our films are a cost effective solution to protect security-sensitive documents. Fused with other layers of polycarbonate, our films can form a single, solid sheet, which will not delaminate. This unique feature foils efforts of potential counterfeiters. CET Films' superior durability makes our solution an exceptional choice for any type of security documents.

- ### APPLICATIONS
- External and internal layers of:
 - Identity Cards
 - Credit Cards
 - Driver's Licenses
 - Passports

KEY BENEFITS

HIGH OPACITY

Conceals embedded security devices at thin gauges within the card core.

BRIGHT WHITE SURFACE

Supports high resolution imaging with superior contrast and fidelity.

SURFACE FINISHES

Standard matte and fine matte surfaces. As well as custom surfaces and custom matched whites.

CUSTOM GAUGES

Available in gauges from .002" (50 micron) to .020" (500 micron). Sheets and rolls.



C E T F I L M S
A NEKOOSA COMPANY

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PHYSICAL PROPERTIES	UNIT	TEST METHOD	VALUE
Physical			
Specific Gravity, 23°C	g/cm ³	ASTM D-792	1.36
Water Absorption, 24 hrs 73°F, 22.8C	%	ASTM D-570	0.12-0.30
Mold Shrinkage	In/in	ASTMD-955	0.0060 to 0.0080
Thickness Tolerance (100 – 375 micron thick)	Micron		± 5%
Surface Roughness (Matte Finish)	Ra	ISO 4288	.42-.60
Surface Roughness (Fine Matte Finish)	Ra	ISO 4288	.80-1.0
Gloss (Matte Finish)	(60°) GU	ISO 2813	10.0-35.0
Gloss (Fine Matte Finish)	(60°) GU	ISO 2813	14.0-20.0
Optical			
Transmittance at (100-375 micron thick)	%	ASTM D-1003	Target Value 5
Mechanical			
Tensile Elongation MD	%	ASTM D-683	< 100
Thermal			
Coefficient of Linear Thermal Expansion	(in/in/F) mm/mm/C	ASTM D-696	(3.9 E-05) 7.0E-05
Vicat Softening Temperature, Rate A	°F (°C)	ASTM D-1525	(315) 157
Heat Deflection Temp. @66PSI (4,640 GSC)	°F (°C)	ASTM D-648	288 (142)
Heat Deflection Temp. @264PSI (18,561 GSC)	°F (°C)	ASTM D-648	270 (132)
Flame Class			
Flammability	%	ASTM D 2863	
0.059in (1.5 mm) Thickness	Rating	ASTM (UL94)	HB
0.118in (3.0 mm) Thickness	Rating		HB