

# Velvet Matt Polycarbonate Film

## Typical Property Values

PROPERTIES	Test Methods	Units	Values	
<b>PHYSICAL</b>				
Specific Gravity	ASTM D792	g/cm <sup>3</sup>	1.2	
Light Transmission	ASTM D1003	%	>88	
Yellowness Index	ASTM D1925	-	<1.0	
Water Absorption Equilibrium, 24HRS	ASTM D570	%	0.35	
<b>MECHANICAL</b>				
Tensile Strength	ASTM D882	psi	8,500	
		MPa	55	
Elongation at break	ASTM D882	%	>90	
Impact Strength @ 10mils	JIS -K6745	In-lbs	120	
Tear Strength Propagation	ASTM D1922	g/mil	>30	
Folding times(MIT)	@0.25mm	ASTM D2176 -69	double folds	60
	@0.5mm	ASTM D2176 -69	double folds	20
<b>THERMAL</b>				
Vicat Softening Temperature	ASTM D1525 -00 Modified B	°C	160	
	ISO 306	°C	149	
Heat Deflection Temp	ISO 75 Modified	°C	142	
Heat Shrinkage @135 °C	ASTM D 1204	%	<0.2	
<b>ELECTRICAL</b>				
Dielectric Strength (@ 10mils)	ASTM D149	V/mil	1,700	
Volume Resistivity @25 °C, 50%RH	ASTM D257	Ohm-cm	10 <sup>16</sup>	
Surface Resistivity @25 °C, 50%RH	ASTM D257	Ω/□	10 <sup>15</sup>	
<b>FLAMMABILITY</b>				
UL Flammability				
Up to 0.5mm (non-halogenated & REACH compliant)	UL BULLETIN 94	UL94	HB	

**Note:** VTM-2 or V-2 products can be manufactured to order.

PROPERTIES	UNITS	LIMITS
Thickness Tolerance	%	<0.250mm ± 10% ≥ 0.250mm ± 5%

**Note:** The above figures are typical values obtained under standard methods and are not intended for specification purposes. Except as provided in seller's standard conditions of sale, seller shall not be responsible for any loss resulting from any use of its products or services described herein. Each user is responsible for making its own determination as to the suitability of seller's products, services or recommendations for user's particular use through appropriate end-use testing and analysis.