



.010 mil Velvet/Matte Polycarbonate with UV-1 Inhibitor

MGX-1089

12" x 18"

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- 10 mil reverse-printable surface (print-ready on the matte side, applied velvet-side up to protect the ink)
- Scratch-resistant velvet surface masks scratches within the surface finish
- Applications include gas-pump graphics, harsh environments, and name plates/labels
- UV Inhibitor provides protection from the sun and prevents yellowing, essential for outdoor use

	PROPERTIES	TEST METHOD	UNITS	VALUES
<b>Physical</b>	Specific Gravity	ASTM D792		1.20
	Conversion Factor		Ft <sup>2</sup> /lb-mil	160
	Water Absorption (Immersion @ 73°F for 24 hours)	ASTM D570	%	0.40
	First Surface Gloss - 60° angle, black inked second surface	ASTM D2457	gloss unit	4.5-8.5
<b>Optical</b>	Haze	ASTM D1003	%	>0.9
	Light Transmission	ASTM D1003	%	93
	Yellowness Index	ASTM D1004	%	1.0
<b>Mechanical</b>	Tensile Strength, Yield	ASTM D882	psi	7,500
	Tensile Strength, Break	ASTM D882	psi	7,400
	Elongation @ Break	ASTM D882	%	110
	Tear Strength, Initiation	ASTM D1004	lb/in	1,100
<b>UV Resistance</b>	Xenon Arc	SAE J1960	Yellowness Index	
	300 hr.			1.0
	600 hr.			1.5
	800 hr.			1.6
	1,000 hr.			1.9

<b>CHEMICAL RESISTANCE*</b>	
<b>Surface Contact at 73°F for 1 hour</b>	
Methylene Chloride	Failed
MEK	Failed
Acetone	Failed
Ethyl Acetate	Failed
Xylene	Failed
Isopropanol	Failed
Toluene	Failed
40% NaOH	Passed
Concentrated HCl	Passed
Butyl Cellosolve	Failed
Premium Gasoline, unleaded	Passed
<b>Surface Contact at 120°F for 24 hours</b>	
Mustard	Failed
<b>*Failure includes permanent stain, blistering, delamination, or cracking</b>	

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