



MGX - 1089

.010 MIL VELVET/MATTE POLYCARBONATE
WITH UV-1 INHIBITOR

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

	PROPERTIES	TEST METHOD	UNITS	VALUES
Physical	Specific Gravity	ASTM D792		1.20
	Conversion Factor		Ft ² /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
Optical	Haze	ASTM D1003	%	>0.9
	Light Transmission	ASTM D1003	%	93
	Yellowness Index	ASTM D1004	%	1.0
Mechanical	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
UV Resistance	Xenon Arc	SAE J1960	Yellowness Index	
	300 hr.			1.0
	600 hr.			1.5
	800 hr.			1.6
	1,000 hr.			1.9

CHEMICAL RESISTANCE*	
Surface Contact at 73°F for 1 hour	
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
Surface Contact at 120°F for 24 hours	
Mustard	Failed
*Failure includes permanent stain, blistering, delamination or cracking	

Product Performance and Suitability Disclaimer

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