

# MXM<sup>®</sup> Synthetic Paper

**MXM Synthetic Paper** is a clay (calcium carbonate) modified calendered Polypropylene with the same feel and texture as white offset paper, but with the tear, water and chemical resistance of plastic. **MXM** is dimensionally stable and can stand temperatures of -60°F to 165°F. All of these properties help to make **MXM** a very durable sheet that can be printed using any of the following printing methods: litho, flexo, gravure, letterpress, screen and thermal transfer. Laser printers using cold or chemical fusion, and dot matrix can also be used.

**MXM**, with its properties, is an ideal product for making maps, calendars, tags, P.O.P. displays, manuals, business cards, membership cards, flip charts, presentation folders, door hangers and many more.

**MXM** is now offered in 2 groups as follows

**MXM-SF** which was successfully introduced in 1998

## Typical Technical Properties of MXM-SF

Property	Test Method	Units		Typical Values	Typical Values
Thickness Range		ins.		0.0034- 0.008	0.0084-0.028
Yield		sq. in/lb.		0.0044"-4,420	0.010"-2,420
		sq. in/lb.		0.008"-2,430	0.012"-2010
Specific Gravity				1.41	1.14
Tensile Strength	ASTM-D638	psi	MD	2,800	3,000
		psi	TD	2,000	2,500
Elongation	ASTM-D638	psi	MD	350	100
		psi	TD	50	40
Tear Resistance	ASTM-D1922	gm/mm	MD	500	500
		gm/mm	TD	650	800

P.T.O.

# MXM Synthetic Paper

**MXM-RF** has a smoother surface than MXM-SF making it more suitable for bar code imprinting

## Typical Technical Properties of MXM-RF

Property	Test Method	Units		Typical Value		
Thickness		ins		0.006	0.008	0.010
Yield		sq. in/lb.		3940	2960	2360
Tensile Strength	ASTM-D638	psi	M.D. T.D.	>4000 >2500	>4000 >2500	>3500 >2000
Elongation	ASTM-D638	%	M.D. T.D.	>500 >80	>500 >80	>300 >60
Tear Strength	ASTM-D1922	gm/mm	M.D. T.D.	400 500	400 500	500 600
Transmittance	ASTM-D1003	%		<25	<25	<18
Whiteness	ASTM-E313	%		>78	>78	>78
Gloss Value (60°)	ASTM-D523	%	S 1 S 2	2-5 2-5	2-5 2-5	2-5 2-5
Surface Roughness (463 Emb)	JIS-B0601	μ"	S 1 S 2	15-35 25-60	15-35 25-60	15-35 25-60
Surface Roughness (463 Emb)	JIS-B0601	μ"	S 1 S 2	45-65 30-65	45-65 30-65	45-65 30-65

**MXM-ES** has increased tear resistance and outdoor weatherability along with the same smooth surface as MXM-RF

Note: The above stated values are typical data and are not specification of guarantee. Transcendia suggests that the purchaser confirm product compatibility prior to use of this product. Stated values are believed to be accurate, but all information is presented without guarantee or responsibility on the part of Transcendia.