



# .010 Clear Tipped Polyester MGX-3438 13" x 19"

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- Excellent temperature resistance
- Durable, low-cost polycarbonate alternative
- Also available in 7 mil
- Withstands exposure to abrasion and most chemicals
- Material can be folded, sheet fed, die cut, grommeted, glued or sewn

PROPERTIES	TYPICAL VALUES	TEST CONDITIONS	TEST METHOD
Tensile Strength MD	> 20kg/mm <sup>2</sup>	25°C	D 882-64
Tensile Strength TD	> 20kg/mm <sup>2</sup>	25°C	D 882-64
Elongation at Break MD	100 to 120%	25°C	D 882-84
Elongation at Break TD	100 to 120%	25°C	D 882-84
Impact Strength	400 gcm/cm <sup>2</sup>	25°C, 25 μ film	D 1709-62
Tear Strength Propagation	20 g/mil	25°C, 25 μ film	D 1922-61
Bursting Strength	>5 kg/cm <sup>2</sup>	25°C, 25 μ film	D 774-63
Folding Endurance	10 <sup>5</sup> cycle	25°C, 25 μ film	D 2176-63
<b>Physical Properties</b>			
Density	1.390 to 1.405 g/cm <sup>3</sup>	25°C	D 1505-63
Moisture Absorption	.05 wt%	23°C, 24 hr	D 570-63
Water Vapor	25 g/m <sup>2</sup> /24 hr	25μ film @ 40°C @ 100% RH	E 98-66
Oxygen	40 cm <sup>3</sup> /m <sup>2</sup> /24hr	25μ film @ 25°C @ 1 atm	D 1434-66
Coefficient of Friction	Kinetic/Static	25°C	D 1894-63
Film/Film	CF 0.3 to 0.5		
<b>Thermal Properties</b>			
Melting Point	280°C		
Softening Point	250°C		
Heat Shrinkage	2.0%	150°C x 30 min	D 2305-67
Surface Temperature	-70° to 150°C		
Specific Heat	0.3 cal g °C	25°C	
Dielectric Strength	7500 volts/mil	25°C 60hz	D 149-64
Dielectric Constant	3.3	25°C 60hz	D 150-65
Dielectric Dissipation	0.0025	25°C 60hz	D 150-65
Surface Resistivity	10 <sup>12</sup> ohm-cm/cm	23°C 80% RH	D 257-66

### Product Performance and Suitability Disclaimer

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