



# Lumicene® mPE M3410

Metallocene Medium Density Polyethylene Film Resin

FILM

## RESIN PROPERTIES <sup>(1)</sup>

	Method	Unit	Typical Value
Melt Flow Index	D1238	g/10 min	–
190°C/2.16 kg	–	–	0.90
190°C/21.6 kg (HLMI)	–	–	30
Density	D792	g/cm <sup>3</sup>	0.934
Melting Temperature	D3418	°F	255

## FILM PROPERTIES <sup>(1) (2)</sup>

	Method	Unit	Typical Value
Dart Impact	D1709, A	g	60
Elmendorf Tear	D1922	g (MD/TD)	55 / 400
Tensile Strength at Break	D882	psi (MD/TD)	6,400 / 6,100
Elongation at Break	D882	% (MD/TD)	400 / 650
1% Secant Modulus	D882	psi (MD/TD)	53,000 / 56,000
WVTR <sup>(3)</sup>	F1249	g/100in <sup>2</sup> /day	0.65
Haze	D1003	%	9
Gloss (45°)	D2457	–	65

(1) Data developed under laboratory conditions and are not to be used as specification, maxima or minima.

(2) Film was produced at 1.0 mil with a 2.5:1 BUR.

(3) Water Vapor Transmission Rate at 100°F / 90%RH.

## CHARACTERISTICS:

- Outstanding clarity and gloss
- Excellent bubble stability
- High stiffness
- Good tear strength
- Good puncture resistance
- Good heat sealing properties
- Excellent compatibility with LDPE and LLDPE

## APPLICATIONS:

- Tissue and towel overwrap films
- Clarity shrink films
- Protective packaging
- Food packaging
- Laminations and multilayer packaging films
- Machine direction oriented (MDO) films

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