



Lumicene® mPE M6410

Clarity Medium Molecular Weight High Density Polyethylene Film Resin

FILM

RESIN PROPERTIES ⁽¹⁾

	Method	Unit	Typical Value
Melt Flow Index	D1238	g/10 min	–
190°C/2.16 kg	–	–	1.2
Density	D792	g/cm ³	0.956
Melting Temperature	D3417	°F	273

FILM PROPERTIES ^{(1) (2)}

	Method	Unit	Typical Value
Haze	D1003	%	24
Gloss, 45°	D2457	–	36
Elmendorf Tear	D1922	g (MD/TD)	38 / 100
Tensile Strength at Break	D882, A	psi (MD/TD)	4,700 / 4,700
Elongation at Break	D882, A	% (MD/TD)	900 / 1,100
1% Secant Modulus	D882, A	psi (MD/TD)	100,000 / 131,000
WVTR ⁽³⁾	F1294	g/100in ² /day	0.1

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

(2) Film was produced at 2.0 mil with a 2.5:1 BUR.

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

CHARACTERISTICS:

- Unique combination of high stiffness and clarity
- Excellent moisture barrier properties
- Good processing
- Compatibility with LDPE and LLDPE

APPLICATIONS:

- Cereal liners
- Stand-up bags / pouches
- Tissue and towel overwrap films
- Release liners
- Envelope windows
- Specialty films
- Machine direction oriented (MDO) films

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