

## Total Lumicene® mPE M 3410 EP HDPE Film

Category : Polymer , Film , Thermoplastic , Polyethylene (PE) , HDPE , MDPE , Medium Density Polyethylene (MDPE), Film Grade

### Material Notes:

Outstanding clarity and gloss; excellent bubble stability; excellent tear strength; high puncture resistance; good stiffness; excellent heat sealing properties; excellent compatibility with LDPE and LLDPE. Applications: Lumicene® mPE M 2710 EP is recommended for clarity shrink films, food packaging, laminations and multilayer packaging film. Information provided provided by Total Petrochemicals.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Total-Lumicene-mPE-M-3410-EP-HDPE-Film.php](http://www.lookpolymers.com/polymer_Total-Lumicene-mPE-M-3410-EP-HDPE-Film.php)

Physical Properties	Metric	English	Comments
Density	0.927 g/cc	0.0335 lb/in <sup>3</sup>	ASTM D792
Water Vapor Transmission	13.9 g/m <sup>2</sup> /day @Thickness 0.0254 mm	0.895 g/100 in <sup>2</sup> /day @Thickness 0.00100 in	
Thickness	25.4 microns	1.00 mil	as tested; BUR 2.5
Melt Flow	0.90 g/10 min @Load 2.16 kg, Temperature 190 °C	0.90 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238
High Load Melt Index	30 g/10 min @Load 21.6 kg, Temperature 190 °C	30 g/10 min @Load 47.6 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	580 % @Thickness 0.0254 mm	580 % @Thickness 0.00100 in	ASTM D882A
Film Elongation at Break, TD	720 % @Thickness 0.0254 mm	720 % @Thickness 0.00100 in	ASTM D882A
Flexural Modulus	0.600 GPa	87.0 ksi	ASTM D 790
Elmendorf Tear Strength MD	165 g @Thickness 0.0254 mm	165 g @Thickness 0.00100 in	ASTM D1922
Elmendorf Tear Strength TD	500 g @Thickness 0.0254 mm	500 g @Thickness 0.00100 in	ASTM D1922
	5.91 g/micron		

Mechanical Properties	Metric @Thickness 0.0254 mm	English 150 g/mil @Thickness 0.00100 in	Comments ASTM D1709
Dart Drop Test	150 g	0.331 lb	1.0 mil; ASTM D 1709
Film Tensile Strength at Break, MD	33.8 MPa @Thickness 0.0254 mm	4900 psi @Thickness 0.00100 in	ASTM D882A
Film Tensile Strength at Break, TD	33.1 MPa @Thickness 0.0254 mm	4800 psi @Thickness 0.00100 in	ASTM D882A
1% Secant Modulus, MD	214 MPa @Thickness 0.0254 mm	31000 psi @Thickness 0.00100 in	ASTM D882A
1% Secant Modulus, TD	172 MPa @Thickness 0.0254 mm	25000 psi @Thickness 0.00100 in	ASTM D882A

Thermal Properties	Metric	English	Comments
Melting Point	121 °C	250 °F	ASTM D3417

Descriptive Properties	Value	Comments
Process	Film	
Region	US & Canada	Bamberger Polymers Distribution

## Contact Songhan Plastic Technology Co.,Ltd.

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