

TOTAL Polyethylene Lumicene® M 3410 EP (US)

Medium Density Polyethylene
TOTAL Refining & Chemicals

Message:

TOTAL Polyethylene mPE M 3410 EP (US) is a Polyethylene material. It is available in Asia Pacific or North America for film extrusion.

Important attributes of TOTAL Polyethylene mPE M 3410 EP (US) are:

REACH Compliant

Clarity

Good Sealability

Good Tear Strength

High Gloss

Typical applications include:

Coating Applications

Film

Packaging

Wrap

General Information			
Features	Good Heat Seal		
	Good Tear Strength		
	High Clarity		
	High Gloss		
	High Stiffness		
	Puncture Resistant		
Uses	Film		
	Laminates		
	Packaging		
	Shrink Wrap		
Agency Ratings	EC 1907/2006 (REACH)		
Forms	Pellets		
Processing Method	Film Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.934	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	0.90	g/10 min	
190°C/21.6 kg	30	g/10 min	
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction (vs. Itself - Static)	0.40		Internal Method
Films	Nominal Value	Unit	Test Method

Secant Modulus			ASTM D882A
1% Secant, MD : 25 µm, Blown Film	365	MPa	
1% Secant, TD : 25 µm, Blown Film	386	MPa	
Tensile Strength			ASTM D882A
MD : Break, 25 µm, Blown Film	44.1	MPa	
TD : Break, 25 µm, Blown Film	42.1	MPa	
Tensile Elongation			ASTM D882A
MD : Break, 25 µm, Blown Film	400	%	
TD : Break, 25 µm, Blown Film	650	%	
Dart Drop Impact (25 µm, Blown Film)	60	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 25 µm, Blown Film	55	g	
TD : 25 µm, Blown Film	400	g	
Seal Initiation Temperature (25 µm, Blown Film)	120	°C	
Water Vapor Transmission Rate (25 µm, Blown Film)	10	g/m ² /24 hr	ASTM F1249
Thermal	Nominal Value	Unit	Test Method
Peak Melting Temperature	124	°C	ASTM D3417
Optical	Nominal Value	Unit	Test Method
Gardner Gloss (45°, 25.4 µm, Blown Film)	65		ASTM D523
Haze (25.4 µm, Blown Film)	9.0	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	193 to 210	°C	

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