

TOTAL Polyethylene Lumicene® M 2710 EP (US)

Medium Density Polyethylene
TOTAL Refining & Chemicals

Message:

TOTAL Polyethylene mPE M 2710 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 2710 EP (US) are:

- REACH Compliant
- Clarity
- Good Sealability
- Good Stiffness
- Good Tear Strength
- Typical applications include:
 - Packaging
 - Coating Applications
 - Film
 - Wrap

General Information			
Features	Good Heat Seal		
	Good Stiffness		
	Good Tear Strength		
	High Clarity		
	High Gloss		
	Puncture Resistant		
Uses	Film		
	Food Packaging		
	Laminates		
	Packaging		
	Shrink Wrap		
Agency Ratings	EC 1907/2006 (REACH)		
Forms	Pellets		
Processing Method	Film Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.927	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)	0.50		Internal Method

Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	25	μm	
Secant Modulus			ASTM D882A
1% Secant, MD : 25 μm, Blown Film	214	MPa	
1% Secant, TD : 25 μm, Blown Film	172	MPa	
Tensile Strength			ASTM D882A
MD : Break, 25 μm, Blown Film	33.8	MPa	
TD : Break, 25 μm, Blown Film	33.1	MPa	
Tensile Elongation			ASTM D882A
MD : Break, 25 μm, Blown Film	580	%	
TD : Break, 25 μm, Blown Film	720	%	
Dart Drop Impact (25 μm, Blown Film)	150	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 25 μm, Blown Film	170	g	
TD : 25 μm, Blown Film	500	g	
Seal Initiation Temperature (25 μm, Blown Film)	112	°C	
Water Vapor Transmission Rate (25 μm, Blown Film)	14	g/m ² /24 hr	ASTM F1249
Thermal	Nominal Value	Unit	Test Method
Peak Melting Temperature	121	°C	ASTM D3418
Optical	Nominal Value	Unit	Test Method
Gardner Gloss (45°, 25.4 μm, Blown Film)	65		ASTM D523
Haze (25.4 μm, Blown Film)	7.0	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	193 to 210	°C	

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Recommended distributors for this material

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