

TOTAL Polyethylene Lumicene® M 1810 EP

Linear Low Density Polyethylene

TOTAL Refining & Chemicals

Message:

Lumicene® mPE M 1810EP is a metallocene based Linear Low Density Polyethylene with hexene as comonomer.
Lumicene® mPE M 1810EP can be processed at high output rates with low extrusion pressure, excellent bubble stability and gauge control in comparison with conventional LLDPE and other metallocene based polyethylene.
Lumicene® mPE M 1810EP is especially dedicated to film applications where excellent optical properties in combination with outstanding impact resistance (even at low temperature) and sealing strength are required, particularly in blend and coextrusion with LLDPE or LDPE.
Lumicene® mPE M 1810EP is suited for many applications in the field of consumer, industrial, food or hygiene packaging such as bags, deep freeze, stretch hood and lamination.

General Information			
Additive	Processing aid		
	Antioxidation		
Features	Ultra-high impact resistance		
	Low density		
	Optical		
	hexene comonomer		
	Antioxidation		
	Low temperature impact resistance		
Uses	Packaging		
	Films		
	Bags		
Processing Method	Blow film		
	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.918	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.0	g/10 min	ISO 1133
Films	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-3
MD: Yield	10.0	MPa	ISO 527-3
TD: Yield	10.0	MPa	ISO 527-3
MD: Fracture	68.0	MPa	ISO 527-3
TD: Fracture	62.0	MPa	ISO 527-3
Tensile Elongation			ISO 527-3
MD: Fracture	670	%	ISO 527-3

TD: Fracture	700	%	ISO 527-3
Dart Drop Impact	> 1200	g	ISO 7765-1
Elmendorf Tear Strength			ISO 6383-2
MD : 1000 μm	110	N	ISO 6383-2
TD : 1000 μm	170	N	ISO 6383-2
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	105	°C	ISO 306
Melting Temperature	110	°C	ISO 11357-3
Optical	Nominal Value	Unit	Test Method
Gloss (45°)	80		ASTM D2457
Haze	3.0	%	ISO 14782
Extrusion	Nominal Value	Unit	
Melt Temperature	200 - 230	°C	
Extrusion instructions			

BUR: 1.5:1 to 4.5:1 Die Gap: 0.8 to 2.8 mm

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