

TOTAL Polyethylene Lumicene® M 2310 EP

Linear Low Density Polyethylene

TOTAL Refining & Chemicals

Message:

Lumicene® mPE M 2310 EP is a second generation metallocene based Linear Low Density Polyethylene with hexene as comonomer. Lumicene® mPE M 2310 EP can be processed at high output rates with low extrusion pressure, excellent bubble stability and gauge control and in comparison with conventional LLDPE and first generation metallocene based polyethylene. Lumicene® mPE M 2310 EP is especially dedicated to film applications where superior optical properties in combination with excellent impact resistance (even at low temperature) and sealing strength are required, particularly in blend and coextrusion with LLDPE or LDPE. Lumicene® mPE M 2310 EP is suited for many applications in the field of consumer, industrial, food or hygiene packaging such as bags, deep freeze, collation shrink and lamination.

General Information			
Additive	Antioxidant		
	Processing Aid		
Features	Antioxidant		
	Good Impact Resistance		
	Hexene Comonomer		
	Low Temperature Impact Resistance		
Uses	Bags		
	Film		
	Food Packaging		
	Laminates		
	Shrink Wrap		
Agency Ratings	EC 1907/2006 (REACH)		
Forms	Pellets		
Processing Method	Blown Film		
Physical	Nominal Value	Unit	Test Method
Density	0.923	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.90	g/10 min	ISO 1133
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	40	µm	ISO 527-3
Tensile Stress			
MD : Yield, 40 µm, Blown Film	12.0	MPa	
TD : Yield, 40 µm, Blown Film	12.0	MPa	
MD : Break, 40 µm, Blown Film	59.0	MPa	
TD : Break, 40 µm, Blown Film	58.0	MPa	
Tensile Elongation			ISO 527-3

MD : Break, 40 µm, Blown Film	650	%	
TD : Break, 40 µm, Blown Film	740	%	
Dart Drop Impact (40 µm, Blown Film)	310	g	ISO 7765-1
Elmendorf Tear Strength ¹			ISO 6383-2
MD : 40.0 µm	80.0	kN/m	
TD	165.0	kN/m	
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	114	°C	ISO 306
Melting Temperature	116	°C	ISO 11357-3
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 40.0 µm, Blown Film)	73		ASTM D2457
Haze ² (40.0 µm)	5.5	%	ISO 14782
Extrusion	Nominal Value	Unit	
Melt Temperature	200	°C	
NOTE			
1.	Blown Film		
2.	Blown Film		

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