

TOTAL Polyethylene Lumicene® M 4707 EP

High Density Polyethylene
TOTAL Refining & Chemicals

Message:

Lumicene® mPE M 4707 EP is a second generation metallocene based High Density Polyethylene with hexene as comonomer. Lumicene® mPE M 4707 EP can be processed at high output rates with low extrusion pressure, excellent bubble stability and gauge control in comparison with conventional LLDPE and first generation metallocene based polyethylene. The combination of these features brings a significant downgauging potential. Lumicene® mPE M 4707 EP is especially dedicated to film applications where high gloss and high transparency are required, particularly in blend and in coextrusion with LLDPE or LDPE. Lumicene® mPE M 4707 EP is suited for many applications in the field of consumer, industrial, food or hygiene packaging such as bags, heavy-duty sacks, automatic packaging, mailing film and lamination.

General Information			
Additive	Antioxidant		
	Processing Aid		
Features	Antioxidant		
	Hexene Comonomer		
	High Clarity		
	High Gloss		
	High Stiffness		
Uses	Bags		
	Blending		
	Film		
	Food Packaging		
	Heavy-duty Bags		
	Industrial Applications		
	Laminates		
	Packaging		
Agency Ratings	EC 1907/2006 (REACH)		
Forms	Pellets		
Processing Method	Blown Film		
	Coextrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.947	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.70	g/10 min	ISO 1133
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	40	µm	

Tensile Stress			ISO 527-3
MD : Yield, 40 μm, Blown Film	24.0	MPa	
TD : Yield, 40 μm, Blown Film	25.0	MPa	
MD : Break, 40 μm, Blown Film	39.0	MPa	
TD : Break, 40 μm, Blown Film	38.0	MPa	
Tensile Elongation			ISO 527-3
MD : Break, 40 μm, Blown Film	610	%	
TD : Break, 40 μm, Blown Film	750	%	
Dart Drop Impact (40 μm, Blown Film)	80	g	ISO 7765-1
Elmendorf Tear Strength ¹			ISO 6383-2
MD : 40.0 μm	10.0	kN/m	
TD : 40.0 μm	60.0	kN/m	
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	130	°C	ISO 306
Melting Temperature	131	°C	ISO 11357-3
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 40.0 μm, Blown Film)	50		ASTM D2457
Haze (40.0 μm, Blown Film)	14	%	ISO 14782
Extrusion	Nominal Value	Unit	
Melt Temperature	200	°C	
NOTE			

1. Blown Film

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