

TOTAL Polyethylene Lumicene® M 1835

Linear Low Density Polyethylene

TOTAL Refining & Chemicals

Message:

Lumicene® mPE M 1835 is designed for high performance cast stretch film for mono and multilayer film production.
Lumicene® mPE M 1835 is a Metallocene based Low Density Polyethylene with hexene as comonomer.
Lumicene® mPE M 1835 brings:
High stretchability (up to 350%) in cast stretch film
Outstanding Impact and Puncture Resistance
Excellent Holding Force
Very good Processability on small and large cast lines
Very low gel level
Lumicene® mPE M 1835 is also suitable for other applications such as Surface Protection, Food Packaging, Hygiene Film and Cast Films. It exhibits an excellent blending-ability with LDPE and LLDPE was observed.

General Information			
Additive	Antioxidant		
Features	Antioxidant		
	Good Impact Resistance		
	Hexene Comonomer		
	Low Gel		
	Puncture Resistant		
Uses	Cast Film		
	Film		
Processing Method	Cast Film		
Physical	Nominal Value	Unit	Test Method
Density	0.918	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	3.5	g/10 min	ISO 1133
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	20	µm	ISO 527-3
Tensile Stress			
MD : Yield, 20 µm, Cast Film	7.00	MPa	
TD : Yield, 20 µm, Cast Film	6.40	MPa	
MD : Break, 20 µm, Cast Film	36.0	MPa	
TD : Break, 20 µm, Cast Film	39.0	MPa	
Tensile Elongation			ISO 527-3
MD : Break, 20 µm, Cast Film	390	%	ISO 7765-1
TD : Break, 20 µm, Cast Film	590	%	
Dart Drop Impact (20 µm, Cast Film)	710	g	
Elmendorf Tear Strength ¹	ISO 6383-2		

MD : 20.0 μm	116.0	kN/m	
TD : 20.0 μm	176.0	kN/m	
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	99.0	°C	ISO 306
Melting Temperature	109	°C	ISO 11357-3
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 20.0 μm, Cast Film)	81		ASTM D2457
Haze (20.0 μm, Cast Film)	2.7	%	ISO 14782
Extrusion	Nominal Value	Unit	
Melt Temperature	220 to 280	°C	
Take-Off Roll	20.0 to 80.0	°C	
NOTE			

1. Cast Film

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