

TOTAL Polyethylene Lumicene® M 3427

Medium Density Polyethylene

TOTAL Refining & Chemicals

Message:

Lumicene® mPE M 3427 is a second generation metallocene based Polyethylene with hexene as comonomer.
Lumicene® mPE M 3427 can be processed at high output rates with low extrusion pressure, low neck-in, excellent drawability and good gauge control in comparison with conventional LLDPE and first generation metallocene based polyethylene. The combination of these features combined with excellent optical properties brings a significant downgauging potential.
Lumicene® mPE M 3427 is suited for many applications in the field of consumer, food and hygiene packaging such as hygiene film, stretch wrap (non cling layer) and lamination.

General Information			
Additive	Antioxidant		
Features	Antioxidant		
	Hexene Comonomer		
Uses	Cast Film		
	Consumer Applications		
	Film		
	Food Packaging		
	Laminates		
	Packaging		
	Stretch Wrap		
Agency Ratings	EC 1907/2006 (REACH)		
Forms	Pellets		
Processing Method	Cast Film		
Physical	Nominal Value	Unit	Test Method
Density	0.934	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	3.1	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	12.0	MPa	
TD : Yield, 20 µm, Cast Film	11.5	MPa	
MD : Break, 20 µm, Cast Film	39.0	MPa	
TD : Break, 20 µm, Cast Film	27.0	MPa	
Tensile Elongation			ISO 527-3
MD : Break, 20 µm, Cast Film	480	%	
TD : Break, 20 µm, Cast Film	590	%	
Dart Drop Impact (20 µm, Cast Film)	53	g	ISO 7765-1

Elmendorf Tear Strength ¹			ISO 6383-2
MD : 20.0 μm	21.0	kN/m	
TD : 20.0 μm	115.0	kN/m	
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	120	°C	ISO 306
Melting Temperature	123	°C	ISO 11357-3
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 20.0 μm, Cast Film)	86		ASTM D2457
Haze (20.0 μm, Cast Film)	2.3	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	240 to 280	°C	
Take-Off Roll	20.0 to 60.0	°C	
NOTE			
1.	Cast Film		

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