

# TOTAL Polyethylene Lumicene® M 2735

Medium Density Polyethylene

TOTAL Refining & Chemicals

## Message:

Lumicene® mPE M 2735 S01 is a Lumicene® metallocene based Polyethylene with hexene as comonomer.  
Lumicene® mPE M 2735 S01 can be processed at high output rates with low extrusion pressure, low neck-in, excellent drawability and good gauge control. Together with these features, Lumicene® mPE M 2735 S01 ensures films with outstanding optical properties and excellent impact and tear resistance.  
Lumicene® mPE M 2735 S01 is suited for many applications in the field of cast film, stretch wrap film (low cling), hygiene film (f.e. diaper backsheet), lamination and artificial grass.

General Information			
Additive	Antioxidation		
Features	Optical		
	hexene comonomer		
	Antioxidation		
	Impact resistance, good		
	Good tear strength		
	Low shrinkage		
Uses	Films		
	Laminate		
	Stretch winding		
	cast film		
Processing Method	cast film		
Physical	Nominal Value	Unit	Test Method
Density	0.927	g/cm³	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	
Tensile Stress			ISO 527-3
MD: Yield, 20 µm, cast film	9.00	MPa	ISO 527-3
TD: Yield, 20 µm, cast film	9.00	MPa	ISO 527-3
MD: Fracture, 20 µm, cast film	39.0	MPa	ISO 527-3
TD: Fracture, 20 µm, cast film	24.0	MPa	ISO 527-3
Tensile Elongation			ISO 527-3
MD: Fracture, 20 µm, cast film	470	%	ISO 527-3
TD: Fracture, 20 µm, cast film	530	%	ISO 527-3
Dart Drop Impact (20 µm, Cast Film)	130	g	ISO 7765-1
Elmendorf Tear Strength <sup>1</sup>			ISO 6383-2

MD : 20.0 μm	50.0	kN/m	ISO 6383-2
TD : 20.0 μm	120.0	kN/m	ISO 6383-2
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	118	°C	ISO 306
Melting Temperature	119	°C	ISO 11357-3
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 20.0 μm, Cast Film)	89		ASTM D2457
Haze (20.0 μm, Cast Film)	1.3	%	ISO 14782
Additional Information			
Film data obtained using laboratory test specimens produced with the following extrusion conditions: Die Gap = 250 μm, Chill Roll Temperature: 20°C, Throughput = 7 kg/h, Melt Temperature: 260°C			
Extrusion	Nominal Value	Unit	
Melt Temperature	240 - 280	°C	
Take-Off Roll	20.0 - 60.0	°C	
NOTE			
1.	Cast Film		

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