

TOTAL Polyethylene Lumicene® M 4040

Low Density Polyethylene

TOTAL Refining & Chemicals

Message:

Lumicene® mPE M 4040 is a second generation metallocene based Polyethylene with hexene as comonomer.

Lumicene® mPE M 4040 can be processed at high output rates with low extrusion pressure, low neck-in, excellent drawability and gauge control in comparison with conventional LLDPE and first generation metallocene based polyethylene. The high stiffness combined with excellent optical properties brings a significant down-gauging potential.

Lumicene® mPE M 4040 is a versatile resin that can be used in pure or in blend for the production of both monolayer and multilayer film. Main applications are: specialty film, hygiene film, embossed film, compounds and consumer and automatic packaging, such as produce bags, mailing and hygiene overwrap film.

General Information			
Additive	Antioxidant		
Features	Antioxidant		
	Food Contact Acceptable		
	Hexene Comonomer		
	High Stiffness		
	Opticals		
Uses	Cast Film		
	Film		
	Food Packaging		
	Packaging		
Agency Ratings	EC 1907/2006 (REACH)		
	EU Food Contact, Unspecified Rating		
	FDA Food Contact, Unspecified Rating		
Forms	Pellets		
Processing Method	Cast Film		
Physical	Nominal Value	Unit	Test Method
Density	0.940	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	4.0	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	14.5	MPa	
TD : Yield, 20 µm, Cast Film	14.7	MPa	
MD : Break, 20 µm, Cast Film	33.0	MPa	
TD : Break, 20 µm, Cast Film	26.0	MPa	

Tensile Elongation			ISO 527-3
MD : Break, 20 μm, Cast Film	480	%	
TD : Break, 20 μm, Cast Film	610	%	
Dart Drop Impact (20 μm, Cast Film)	30	g	ISO 7765-1
Elmendorf Tear Strength ¹			ISO 6383-2
MD : 20.0 μm	11.0	kN/m	
TD : 20.0 μm	90.0	kN/m	
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	122	°C	ISO 306
Melting Temperature	126	°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)	5.5	%	ISO 14782
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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