

TOTAL Polyethylene Lumicene® M 2711 PCE

Linear Low Density Polyethylene

TOTAL Refining & Chemicals

Message:

Lumicene® mPE M2711 PCE is a Metallocene based Linear Low Density Polyethylene with hexene as comonomer. This product contains slip and anti-block agents.

Lumicene® mPE M2711 PCE 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 down gauging potential.

Lumicene® mPE M2711 PCE is especially dedicated to film applications requiring low coefficient of friction (COF) and blocking properties while maintaining good optics, particularly in blend and in coextrusion with LLDPE or LDPE.

Lumicene® mPE M2711 PCE is suited for many applications in the field of consumer, industrial, food or hygiene packaging such as bags, deep freeze, collation shrink and lamination.

General Information			
Additive	Processing aid		
	Anti-caking agent		
	Antioxidation		
	slip agent		
Features	Low density		
	smoothness		
	Optical		
	hexene comonomer		
	Anti-caking property		
	Antioxidation		
Uses	Packaging		
	Films		
	Laminate		
	Bags		
	Mixing		
Processing Method	Blow film		
	Co-extrusion molding		
Physical	Nominal Value	Unit	Test Method
Density	0.927	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.90	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	13.5	MPa	ISO 527-3
TD: Yield, 40 µm	14.0	MPa	ISO 527-3
MD: Break, 40 µm	48.0	MPa	ISO 527-3
TD: Break, 40 µm	51.0	MPa	ISO 527-3
Tensile Elongation			ISO 527-3
MD: Break, 40 µm	650	%	ISO 527-3
TD: Break, 40 µm	720	%	ISO 527-3
Dart Drop Impact (40 µm)	230	g	ISO 7765-1
Elmendorf Tear Strength			ISO 6383-2
MD : 40 µm	60	N	ISO 6383-2
TD : 40 µm	170	N	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°)	65		ASTM D2457
Haze	8.0	%	ISO 14782
Extrusion	Nominal Value	Unit	
Melt Temperature	180 - 230	°C	
Extrusion instructions			

Lumicene® mPE M2711 PCE is typically extruded at a melt temperature around 200°C. Lumicene® mPE M2711 PCE can be blown easily at any of the following conditions: Temperature: 180 to 230°C, BUR: 1.5:1 to 4.5:1, Die gap: 0.8 to 2.8 mm. Film test figures obtained using laboratory test specimens produced with the following extrusion conditions: 45 mm screw diameter, L/D = 30, die diameter = 20 mm, die gap = 1.4 mm, BUR = 2.5:1, temperature = 210°C.

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