TOTAL Polyethylene Lumicene® M 2710 EP (EU)

Linear Low Density Polyethylene

TOTAL Refining & Chemicals

Message:

Lumicene® mPE M 2710 EP is a second generation metallocene based Low Density Polyethylene with hexene as comonomer.
Lumicene® mPE M 2710 EP 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 downgauging potential.
Lumicene® mPE M 2710 EP is especially dedicated to film applications where high gloss and high transparency are required, particularly in blend and in coextrusion with LLDPE or LDPE.
Lumicene® mPE M 2710 EP 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		
Features	Good Heat Seal Good Stiffness Good Tear Strength Heat Sealable Hexene Comonomer High Clarity High Gloss Puncture Resistant		
Uses	Bags Blending Consumer Applications Film Food Packaging Industrial Applications Laminates Multilayer Film Packaging Shrink Wrap		
Agency Ratings	EC 1907/2006 (REACH)		
Forms	Pellets		
Processing Method	Coextrusion		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	0.927	g/cm³	ASTM D792, ISO 1183

Melt Mass-Flow Rate (MFR)			
190°C/2.16 kg	0.90	g/10 min	ASTM D1238, ISO 1133
190°C/21.6 kg	30	g/10 min	ASTM D1238
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Coefficient of Friction (vs. Itself - Static, Blown Film)	0.50		ASTM D1894
Films	**Nominal Value**	**Unit**	**Test Method**
Secant Modulus			ASTM D882A
1% Secant, MD : 25 µm, Blown Film	214	MPa	
1% Secant, TD : 25 µm, Blown Film	172	MPa	
Tensile Stress			
MD : Yield, 40 µm, Blown Film	13.5	MPa	ISO 527-3
TD : Yield, 40 µm, Blown Film	14.0	MPa	ISO 527-3
MD : Break, 25 µm,Blown Film	33.8	MPa	ASTM D882A
TD : Break, 25 µm,Blown Film	33.1	MPa	ASTM D882A
MD : Break, 40 µm, Blown Film	51.0	MPa	ISO 527-3
TD : Break, 40 µm, Blown Film	48.0	MPa	ISO 527-3
Tensile Elongation			
MD : Break, 25 µm,Blown Film	580	%	ASTM D882A
TD : Break, 25 µm,Blown Film	720	%	ASTM D882A
MD : Break, 40 µm, Blown Film	650	%	ISO 527-3
TD : Break, 40 µm, Blown Film	720	%	ISO 527-3
Dart Drop Impact			
25 µm, Blown Film	150	g	ASTM D1709A
40 µm, Blown Film	200	g	ISO 7765-1
Elmendorf Tear Strength - TD (25 µm, Blown Film)	500	g	ASTM D1922
Seal Initiation Temperature (25 µm, Blown Film)	112	°C	
Water Vapor Transmission	14	g/m²/24 hr	ASTM E96
Elmendorf Tear Strength [1]			ISO 6383-2
MD : 40.0 µm	60.0	kN/m	
TD : 40.0 µm	160.0	kN/m	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Vicat Softening Temperature	118	°C	ISO 306
Melting Temperature			
--	119	°C	ISO 11357-3
--	121	°C	ASTM D3417
Optical	**Nominal Value**	**Unit**	**Test Method**
Gardner Gloss (45°, 25.4 µm, Blown Film)	65		ASTM D523
Gloss (45°, 40.0 µm, Blown Film)	70		ASTM D2457
Haze			
25.4 µm, Blown Film	7.0	%	ASTM D1003

40.0 µm, Blown Film	6.5	%	ISO 14782

Extrusion	Nominal Value	Unit
Melt Temperature	193 to 210	°C

NOTE	
1.	Blown Film

Recommended distributors for this material

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