

TOTAL Polyethylene Lumicene® M 2704 EP

Linear Low Density Polyethylene

TOTAL Refining & Chemicals

Message:

Lumicene® mPE M 2704 EP is a second generation metallocene based Low Density Polyethylene with hexene as comonomer. Lumicene® mPE M 2704 EP can be processed at high output rates with 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 2704 EP is suited for many applications in the field of consumer and industrial packaging, collation and industrial shrink as well as agricultural film.

General Information			
Additive	Antioxidant		
	Processing Aid		
Features	Antioxidant		
	Hexene Comonomer		
Uses	Agricultural Applications		
	Film		
	Packaging		
	Shrink Wrap		
Agency Ratings	EC 1907/2006 (REACH)		
Processing Method	Blown Film		
Physical	Nominal Value	Unit	Test Method
Density	0.927	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.35	g/10 min	ISO 1133
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	40	µm	ISO 527-3
Tensile Stress			
MD : Yield, 40 µm, Blown Film	14.5	MPa	
TD : Yield, 40 µm, Blown Film	15.0	MPa	
MD : 40 µm, Blown Film	65.0	MPa	
TD : 40 µm, Blown Film	57.0	MPa	
Tensile Elongation			ISO 527-3
MD : Break, 40 µm, Blown Film	640	%	
TD : Break, 40 µm, Blown Film	710	%	
Dart Drop Impact (40 µm, Blown Film)	220	g	ISO 7765-1
Elmendorf Tear Strength ¹			ISO 6383-2
MD : 40.0 µm	40.0	kN/m	
TD : 40.0 µm	150.0	kN/m	

Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	119	°C	ISO 306
Melting Temperature (DSC)	121	°C	ISO 3146
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 40.0 µm, Blown Film)	65		ASTM D2457
Haze (40.0 µm, Blown Film)	8.0	%	ISO 14782
Extrusion	Nominal Value	Unit	
Melt Temperature	200	°C	
NOTE			
1.	Blown Film		

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

