

Flexirene® CM 50

Linear Low Density Polyethylene

Versalis S.p.A.

Message:

Flexirene CM 50 is a butene copolymer with medium density (C4-LLDPE), with antioxidants, suitable for cast film extrusion.

Main Application

Flexirene CM 50 is a highly stiff product and it is recommended for the production of coextruded stretch film in slip-cling formulations where it acts as slip layer.

General Information			
Additive	Antioxidant		
Features	Antioxidant		
	Butene Comonomer		
	Copolymer		
	Food Contact Acceptable		
	High Stiffness		
	Medium Density		
Uses	Cast Film		
	Stretch Wrap		
Agency Ratings	EU Food Contact, Unspecified Rating		
Forms	Pellets		
Processing Method	Cast Film		
	Coextrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.938	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	4.1	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction (vs. Itself - Dynamic, Cast Film)	> 0.50		ISO 8295
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	23	µm	
Film Thickness - Recommended / Available	10 to 50µm		
Tensile Modulus			ISO 527-3
1% Secant, MD : 23 µm, Cast Film	350	MPa	
1% Secant, TD : 23 µm, Cast Film	370	MPa	
Tensile Stress			ISO 527-3
MD : Yield, 23 µm, Cast Film	17.0	MPa	
TD : Yield, 23 µm, Cast Film	16.0	MPa	

MD : Break, 23 μm, Cast Film	25.0	MPa	
TD : Break, 23 μm, Cast Film	20.0	MPa	
Tensile Elongation			ISO 527-3
MD : Break, 23 μm, Cast Film	600	%	
TD : Break, 23 μm, Cast Film	700	%	
Dart Drop Impact ¹ (23 μm, Cast Film)	45	g	ISO 7765-1
Elmendorf Tear Strength ²			ISO 6383-2
MD : 23.0 μm	8.0	kN/m	
TD : 23.0 μm	20.0	kN/m	
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -70.0	°C	ASTM D746
Vicat Softening Temperature	118	°C	ISO 306/A
Melting Temperature	127	°C	Internal Method
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 23.0 μm, Cast Film)	75		ASTM D2457
Haze (23.0 μm, Cast Film)	8.0	%	ISO 14782
Extrusion	Nominal Value	Unit	
Melt Temperature	220 to 270	°C	
NOTE			
1.	F50		
2.	Cast Film		

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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



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