

Lotrène® LDPE FD0270

Low Density Polyethylene

QAPCO

Message:

Lotrène® LDPE FD0270 is a Low Density Polyethylene product. It can be processed by blown film or film extrusion and is available in Africa & Middle East or Europe. Applications of Lotrène® LDPE FD0270 include bags/liners, coating applications, film, foam and food contact applications.

Characteristics include:

REACH Compliant

Food Contact Acceptable

Good Dimensional Stability

High Gloss

General Information			
Features	Additive Free		
	Food Contact Acceptable		
	Good Dimensional Stability		
	High Gloss		
Uses	Bags		
	Film		
	Foam		
	Laminates		
	Shrink Wrap		
Agency Ratings	EC 1907/2006 (REACH)		
	FDA 21 CFR 177.1520		
Appearance	Clear/Transparent		
Forms	Pellets		
Processing Method	Blown Film		
	Film Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.923	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.4	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction	0.45		ASTM D1894
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	50	µm	
Film Thickness - Recommended / Available	25 to 100µm		
Tensile Strength			ASTM D882

MD : Yield,50 μm	12.0	MPa	
TD : Yield,50 μm	11.0	MPa	
MD : Break, 50 μm	22.0	MPa	
TD : Break, 50 μm	20.0	MPa	
Tensile Elongation			ASTM D882
MD : Break, 50 μm	550	%	
TD : Break, 50 μm	600	%	
Dart Drop Impact ¹ (50 μm)	110	g	ASTM D1709B
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	94.0	°C	ASTM D1525
Peak Crystallization Temperature (DSC)	111	°C	ASTM E794
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 50.0 μm)	75		ASTM D2457
Clarity (50.0 μm)	85.0		ASTM D1746
Haze (50.0 μm)	6.5	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	140 to 150	°C	
NOTE			
1.	F50		

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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



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