

Lotrène® LDPE FB3003

Low Density Polyethylene

QAPCO

Message:

Lotrène® LDPE FB3003 is a Low Density Polyethylene product. It can be processed by blown film, extrusion, or film extrusion and is available in Africa & Middle East or Europe. Applications of Lotrène® LDPE FB3003 include agricultural, bags/liners, bottles, construction applications and film.

Characteristics include:

REACH Compliant

Food Contact Acceptable

High ESCR (Stress Crack Resistant)

General Information	
Features	Additive Free
	Food Contact Acceptable
	High ESCR (Stress Crack Resist.)
Uses	Agricultural Applications
	Bottles
	Cable Jacketing
	Construction Applications
	Film
	Heavy-duty Bags
	Industrial Applications
	Piping
	Shrink Wrap
Agency Ratings	EC 1907/2006 (REACH)
	FDA 21 CFR 177.1520
Forms	Pellets
Processing Method	Blown Film
	Extrusion
	Film Extrusion

Physical	Nominal Value	Unit	Test Method
Density	0.920	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.30	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction	0.50		ASTM D1894
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	50	µm	

Film Thickness - Recommended / Available	50 to 250µm		
Tensile Strength	ASTM D882		
MD : Yield,50 µm	16.0	MPa	
TD : Yield,50 µm	11.0	MPa	
MD : Break, 50 µm	25.0	MPa	
TD : Break, 50 µm	25.0	MPa	
Tensile Elongation	ASTM D882		
MD : Break, 50 µm	550	%	
TD : Break, 50 µm	600	%	
Dart Drop Impact ¹ (50 µm)	220	g	ASTM D1709
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	95.0	°C	ASTM D1525
Peak Crystallization Temperature (DSC)	109	°C	ASTM E794
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 50.0 µm)	40		ASTM D2457
Clarity (50.0 µm)	25.0		ASTM D1746
Haze (50.0 µm)	13	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	180 to 210	°C	
NOTE			
1.	F50		

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