

# Alkathene® LDF433

Low Density Polyethylene

Qenos Pty Ltd

## Message:

LDF443 is a low density polyethylene designed for a variety of medium to heavy gauge (70 - 200µm) film applications where increased stiffness is required. LDF443 is formulated with a process stabilisation and antiblock package but contains no slip additives.

### Application:

LDF433 is intended for use in medium to heavy gauge (70 - 200µm) film applications where increased stiffness is required.

General Information			
Additive	Antiblock		
	Processing Stabilizer		
Features	Antiblocking		
	Good Stiffness		
	Low Density		
Uses	Film		
Agency Ratings	AS 2070-1999 section 4.1.1(a)		
	FDA 21 CFR 177.1520(c) 2.1		
Processing Method	Film Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.925	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.45	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction	0.40		ASTM D1894
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	100	µm	
Secant Modulus			ASTM D882
2% Secant, MD : 100 µm, Blown Film	180	MPa	
2% Secant, TD : 100 µm, Blown Film	200	MPa	
Tensile Strength			ASTM D882
MD : Yield,100 µm, Blown Film	12.0	MPa	
TD : Yield,100 µm, Blown Film	12.0	MPa	
MD : Break, 100 µm,Blown Film	24.0	MPa	
TD : Break, 100 µm,Blown Film	21.0	MPa	
Tensile Elongation			ASTM D882
MD : Break, 100 µm,Blown Film	640	%	
TD : Break, 100 µm,Blown Film	820	%	

Dart Drop Impact (100 µm, Blown Film)	230	g	ASTM D1709
Elmendorf Tear Strength <sup>1</sup>			ASTM D1922
MD : 100.0 µm	8	N	
TD : 100.0 µm	7	N	
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 100 µm, Blown Film)	62		ASTM D2457
Haze (100 µm, Blown Film)	14	%	ASTM D1003
NOTE			

1. Blown Film

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#### Recommended distributors for this material

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