

# Alkathene® Ultra LDD201

Linear Low Density Polyethylene

Qenos Pty Ltd

## Message:

LDD201 is a low density polyethylene designed for a variety of medium to heavy gauge (50 - 150µm) general purpose film applications. LDD201 is formulated with a process stabilisation additive package but contains no antiblock or slip additives.

LDD201 is intended for use in medium to heavy gauge (50 - 150µm) general purpose film applications and blending into other film grades.

General Information			
Additive	Processing stabilizer		
Features	General		
Uses	Films		
	Mixing		
Agency Ratings	FDA 21 CFR 177.1520(c) 2.1		
Forms	Particle		
Processing Method	Film extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.922	g/cm³	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 (Blown Film)	0.40		ASTM D1894
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	50	µm	
secant modulus			ASTM D882
2% secant, MD: 50 µm, blown film	140	MPa	ASTM D882
2% secant, TD: 50 µm, blown film	170	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 50 µm, blown film	12.0	MPa	ASTM D882
TD: Yield, 50 µm, blown film	10.0	MPa	ASTM D882
MD: Broken, 50 µm, blown film	25.0	MPa	ASTM D882
TD: Broken, 50 µm, blown film	20.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Broken, 50 µm, blown film	310	%	ASTM D882
TD: Broken, 50 µm, blown film	750	%	ASTM D882
Dart Drop Impact (50 µm, Blown Film)	140	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD : 50 µm	350	g	ASTM D1922
TD : 50 µm	250	g	ASTM D1922
Optical	Nominal Value	Unit	Test Method

Gloss (45°, 50.0 µm, Blown Film)	68		ASTM D2457
Haze (50.0 µm, Blown Film)	7.0	%	ASTM D1003
Additional Information			

Film properties taken from blown film processed at a blow up ratio of 3.2:1.

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