

Alkathene® XLF197

Linear Low Density Polyethylene

Qenos Pty Ltd

Message:

XLF197 is a low density polyethylene designed for the production of thin gauge (less than 20µm) high clarity films. XLF197 does not contain any additives. XLF197 is intended primarily for the manufacture of food wrap films; often an additive is incorporated during the manufacture of film to enhance cling performance.

General Information			
Features	Definition, high		
Uses	Films		
Agency Ratings	AS 2070-1999 4.1.1(a)		
	FDA 21 CFR 177.1520(c) 2.1		
Forms	Particle		
Processing Method	Film extrusion		
	Blow film		

Physical	Nominal Value	Unit	Test Method
Density	0.920	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	5.5	g/10 min	ASTM D1238

Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	15	µm	
secant modulus			ASTM D882
2% secant, MD: 15 µm, blown film	180	MPa	ASTM D882
2% secant, TD: 15 µm, blown film	220	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 15 µm, blown film	12.0	MPa	ASTM D882
TD: Yield, 15 µm, blown film	11.0	MPa	ASTM D882
MD: Broken, 15 µm, blown film	28.0	MPa	ASTM D882
TD: Broken, 15 µm, blown film	13.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Broken, 15 µm, blown film	150	%	ASTM D882
TD: Broken, 15 µm, blown film	630	%	ASTM D882
Dart Drop Impact (15 µm, Blown Film)	45	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD: 15 µm, blown film	190	g	ASTM D1922
TD: 15 µm, blown film	82	g	ASTM D1922

Optical	Nominal Value	Unit	Test Method
Gloss (45 °, 15.0 µm, blown film)	76		ASTM D2457

Haze (15.0 μm, blown film)	4.0	%	ASTM D1003
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Additional Information


Film properties taken from blown film processed at a blow up ratio of 2:1.

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