

Alkamax® ML 1810PN

Metallocene Linear Low Density Polyethylene

Qenos Pty Ltd

Message:

Alkamax ML1810PN is a metallocene linear low density polyethylene copolymer. This metallocene grade has excellent processability permitting higher production rates. It is designed for high performance film applications requiring maximum toughness and excellent sealing performance. Alkamax ML1810PN is formulated with a process aid and process stabilisation package. It does not contain slip or antiblocking additives. Alkamax ML1810PN is intended for applications requiring high performance polyethylene resins. Films produced with Alkamax ML1810PN have outstanding toughness, making this grade ideal for use in heavy duty applications or for downgauging existing film structures. In addition, the high performance sealing and hot tack properties of this grade combined with its excellent optical properties make it ideal for lamination and form, fill and seal films. It has been designed for processing on a wide range of blown film extrusion equipment. Addition of a UV stabiliser should be considered where the intended application involves intermittent to extended exposure to sunlight.

General Information			
Additive	Processing Aid		
Features	Copolymer		
	Food Contact Acceptable		
	Good Processability		
	Good Processing Stability		
	Good Toughness		
	Low Density		
	Very Broad Seal Range		
Uses	Film		
	Laminates		
Agency Ratings	AS 2070-1999		
	FDA 21 CFR 177.1520(c) 3.1a		
Processing Method	Film Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.918	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.0	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	50	µm	ASTM D882
Secant Modulus ¹			
2% Secant, MD : 50 µm	183	MPa	
2% Secant, TD : 50 µm	190	MPa	ASTM D882
Tensile Strength ²			
MD : Yield,50 µm	11.0	MPa	
TD : Yield,50 µm	11.0	MPa	
MD : Break, 50 µm	50.0	MPa	

TD : Break, 50 μm	46.0	MPa	
Tensile Elongation ³			ASTM D882
MD : Break, 50 μm	790	%	
TD : Break, 50 μm	820	%	
Dart Drop Impact ⁴	> 1500	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD : 50 μm	580	g	
TD : 50 μm	660	g	
Optical	Nominal Value	Unit	Test Method
Gloss ⁵ (45°)	64		ASTM D2457
Haze ⁶ (50.0 μm)	11	%	ASTM D1003
NOTE			
1.	20 mm/min		
2.	500 mm/min		
3.	500 mm/min		
4.	F50		
5.	(10% LDPE blended)		
6.	(10% LDPE blended)		

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