

Alkamax® ML 1810PS

Metallocene Linear Low Density Polyethylene

Qenos Pty Ltd

Message:

Alkamax® ML1810PS 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 ML1810PS is formulated with a high slip level, process stabilisation, process aid and antiblocking additive.

Alkamax ML1810PS is intended for applications requiring high performance polyethylene resins combined with low COF. Films produced with Alkamax ML1810PS 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	High Antiblock High Slip Processing Aid Processing Stabilizer		
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	
Secant Modulus ¹			ASTM D882
2% Secant, MD : 50 µm	180	MPa	
2% Secant, TD : 50 µm	190	MPa	

Tensile Strength ²			ASTM D882
MD : Yield,50 μm	11.0	MPa	
TD : Yield,50 μm	11.0	MPa	
MD : Break, 50 μm	39.0	MPa	
TD : Break, 50 μm	34.0	MPa	
Tensile Elongation ³			ASTM D882
MD : Break, 50 μm	720	%	
TD : Break, 50 μm	740	%	
Dart Drop Impact ⁴	> 1300	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°)	60		ASTM D2457
Haze ⁶ (50.0 μm)	13	%	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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