

DESCRIPTION

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.

APPLICATION

Film Extrusion: 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.

FOOD CONTACT / PRODUCT SAFETY

For food contact information please refer to the Regulatory Data Sheet at genos.com. For product safety information please refer to the Safety Data Sheet at genos.com.

Polymer Properties	Value ¹	Units	Test Method
Melt Index @ 190°C, 2.16 kg	1.0	g/10 min	ASTM D1238
Density ²	0.918	g/cm ³	ASTM D1505

Film Properties ³	Value ¹	Units	Test Method	
Haze (10% LDPE blended)	13	%	ASTM D1003	
Gloss, 45° (10% LDPE blended)	60	GU	ASTM D2457	
Dart Drop Impact (F ₅₀)	1250	g	ASTM D1709	
Tear Strength	MD TD	5.7 6.5	N N	ASTM D1922
Tensile Strength at Yield ⁴	MD TD	11 11	MPa MPa	ASTM D882
Tensile Strength at Break ⁴	MD TD	39 34	MPa MPa	ASTM D882
Elongation at Break ⁴	MD TD	720 740	% %	ASTM D882
2% Secant Modulus ⁵	MD TD	180 190	MPa MPa	ASTM D882

1. Typical values - not to be construed as specifications.
2. Base resin density; antiblock additive adds 0.001 – 0.002 g/cm³.
3. Film properties have been measured on 50 µm gauge film extruded at Qenos Gloucester line (2.8:1 blow-up ratio).
4. At 500 mm/min cross head speed.
5. At 20 mm/min cross head speed.

For up to date information, refer to genos.com

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