



EBANTIX® E1303

REPSOL - Ethylene Butyl Acrylate Copolymer

Sunday, November 3, 2019

General Information

Product Description

EBA REPSOL EBANTIX® E1303 is a copolymer suitable for blown film applications where good flexibility and very good mechanical properties are required. The butyl acrylate content is 13%. It contains antioxidant additives.

Applications:

- Film extrusion.
- Stretch hood film.
- Agricultural films.
- Cables.

Recommended melt temperature 180°C. Processing characteristics of E1303 are similar to LDPE and conventional polyethylene extruders are recommended. Processing conditions should be optimised for each production line.

General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Asia Pacific • Europe • Latin America • North America
Additive	• Antioxidant
Features	• Antioxidant • Copolymer • Food Contact Acceptable • Good Flexibility
Uses	• Agricultural Applications • Blow Molding Applications • Film • Stretch Wrap
Agency Ratings	• EU Food Contact, Unspecified Rating
Processing Method	• Blown Film • Film Extrusion

ASTM & ISO Properties¹

Physical	Nominal Value	Unit	Test Method
Density (73°F)	0.925	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.30	g/10 min	ISO 1133
n-Butyl Acrylate Content	13.0	wt%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction	1.3		ISO 8295
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested ²	8	mil	
Tensile Stress			ISO 527-3
MD : Break, 7.9 mil, Blown Film	2900	psi	
TD : Break, 7.9 mil, Blown Film	3190	psi	
Tensile Elongation			ISO 527-3
MD : Break, 7.9 mil, Blown Film	570	%	
TD : Break, 7.9 mil, Blown Film	600	%	
Dart Drop Impact ³ (7.9 mil, Blown Film)	> 1500	g	ISO 7765-1
Elmendorf Tear Strength			ISO 6383-2
MD : 7.9 mil, Blown Film	2.8	lbf	
TD : 7.9 mil, Blown Film	3.0	lbf	

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Thermal	Nominal Value	Unit	Test Method
Melting Temperature	214	°F	Internal Method

Processing Information

Extrusion	Nominal Value	Unit
Melt Temperature	356	°F

Notes

¹ Typical properties: these are not to be construed as specifications.

² blow up ratio 1:2.5, frost line height 50 cm

³ F 50