



EBANTIX® E303

REPSOL - Ethylene Butyl Acrylate Copolymer

Sunday, November 3, 2019

General Information

Product Description

EBA REPSOL EBANTIX® E303 is a copolymer suitable for blown film applications with good optical and mechanical properties even at low temperatures. The material has very good sealing properties. The butyl acrylate content is 3%.

Applications:

- Shrink film.
- Silage film.
- Heavy-duty bags.

Recommended melt temperature 180°C. Processing characteristics of E303 are similar to LDPE and conventional polyethylene extruders are recommended.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Copolymer	• Food Contact Acceptable	• Good Optical Properties
Uses	• Blow Molding Applications • Film	• Heavy-duty Bags • Stretch Wrap	
Agency Ratings	• EU Food Contact, Unspecified Rating		
Processing Method	• Blown Film		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density (73°F)	0.923	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	3.0	wt%	Internal Method
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested ²	5	mil	
Tensile Stress			ISO 527-3
MD : Break, 4.9 mil, Blown Film	3630	psi	
TD : Break, 4.9 mil, Blown Film	3630	psi	
Tensile Elongation			ISO 527-3
MD : Break, 4.9 mil, Blown Film	500	%	
TD : Break, 4.9 mil, Blown Film	700	%	
Dart Drop Impact (4.9 mil, Blown Film)	> 600	g	ISO 7765-1
Elmendorf Tear Strength			ISO 6383-2
MD : 4.9 mil, Blown Film	0.90	lbf	
TD : 4.9 mil, Blown Film	1.3	lbf	
Optical	Nominal Value	Unit	Test Method
Gloss (45°)	70		ASTM D2457
Haze	10.0	%	ASTM D1003

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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