EBANTIX® E1704

REPSOL - Ethylene Butyl Acrylate Copolymer

Sunday, November 3, 2019

General Information

Product Description

EBA REPSOL EBANTIX ® E1704 is a copolymer suitable for blown film applications where good processability, flexibility and good mechanical properties are required. The butyl acrylate content is 17%. It contains antioxidant additives.

Applications:

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

Recommended melt temperature 180°C. Processing characteristics of E1704 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	• Good Processability
Uses	• Blow Molding Applications	• Film	
Agency Ratings	• EU Food Contact, Unspecified Rating		
Processing Method	• Blown Film	• Film Extrusion	

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density (73°F)	0.925	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.40	g/10 min	ISO 1133
n-Butyl Acrylate Content	17.0	wt%	Internal Method
Films	**Nominal Value**	**Unit**	**Test Method**
Film Thickness - Tested [2]	4	mil	
Tensile Stress			ISO 527-3
MD : Break, 3.9 mil, Blown Film	4210	psi	
TD : Break, 3.9 mil, Blown Film	4350	psi	
Tensile Elongation			ISO 527-3
MD : Break, 3.9 mil, Blown Film	750	%	
TD : Break, 3.9 mil, Blown Film	850	%	
Dart Drop Impact [3] (3.9 mil, Blown Film)	> 1400	g	ISO 7765-1
Elmendorf Tear Strength			ISO 6383-2
MD : 3.9 mil, Blown Film	0.81	lbf	
TD : 3.9 mil, Blown Film	0.88	lbf	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Melting Temperature	205	°F	Internal Method

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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

[3] F 50