



EBANTIX® E1770

REPSOL - Ethylene Butyl Acrylate Copolymer

Sunday, November 3, 2019

General Information

Product Description

EBA REPSOL EBANTIX® E1770 is a copolymer suitable for general extrusion, injection moulding and compounds where good processability, flexibility and very good mechanical properties are required. The butyl acrylate content is 17%. It contains antioxidant additives.

Applications:

- Extrusion (profiles, sheets).
- Injection moulding.
- Microcellular foams.
- Compounds and masterbatches.
- Cables.

Recommended melt temperature 180°C. EBA copolymers exhibit excellent thermal stability, which allows higher processing temperatures if needed. Processing characteristics of E1770 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	• Compounding • Foam	• Masterbatch • Profiles	• Sheet
Agency Ratings	• EU Food Contact, Unspecified Rating		
Processing Method	• Compounding	• Extrusion	• Injection Molding

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density (73°F)	0.924	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	7.0	g/10 min	ISO 1133
n-Butyl Acrylate Content	17.0	wt%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break)	1740	psi	ISO 527-2
Tensile Strain			ISO 527-2
Break ²	800	%	
Break ³	800	%	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore A	90		
Shore D	33		
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	142	°F	ISO 306/A
Melting Temperature	199	°F	Internal Method

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Processing Information

Injection	Nominal Value	Unit
Processing (Melt) Temp	356	°F
Extrusion	Nominal Value	Unit
Melt Temperature	356	°F

Notes

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

² MD

³ TD