

Ethylene – Acrylic Ester– Maleic Anhydride Terpolymer

Description

LOTADER[®] TX8030 is a random terpolymer of ethylene, acrylic ester and maleic anhydride, polymerized by high-pressure autoclave process.

Applications

LOTADER[®] TX8030 is a versatile adhesive for extrusion coating or lamination, designed as:

- Concentrate to be used in dry blend with LDPE. LOTADER[®] TX8030 improves adhesion of LDPE on aluminium foils, metallized or primerized films.
- Ready for use resin to be used pure. LOTADER[®] TX8030 gives excellent adhesion on substrates likes aluminium foil, metallized plastics, paper, board, PE and some plastic films like BOPP.

Typical properties

Characteristics	Value	Unit	Test Method
Ethyl acrylate Content	13	% Wt	FTIR (internal)
Maleic Anhydride content	2.8	% Wt	FTIR (internal)
Melt index (190°C / 2,16 kg)	3	g/10min	ISO 1133 / ASTM D1238
Melting point	95	°C	ISO 11357-3
Density	0.94	g/cm ³	ISO 1183 / ASTM D1505
Vicat softening temperature (10N) ⁽¹⁾	65	°C	ISO 306 / ASTM D1525
Flexural modulus	130	MPa	ISO 178 / ASTM D790
Elongation at break ⁽¹⁾	700	%	ISO 527-2 / ASTM D638
Tensile strength at break ⁽¹⁾	12	MPa	ISO 527-2 / ASTM D638
Hardness shore D ⁽¹⁾	36	-	ISO 868 / ASTM D2240

⁽¹⁾ On compression molded samples.

Processing

As a result of high-pressure polymerization in autoclave reactor, LOTADER[®] TX8030 molecular structure and rheology are remarkably suitable for all kinds of extrusion, including extrusion coating/lamination: low neck-in, excellent melt stability and drawability.

Standard polyolefin extrusion equipment can be used for LOTADER[®] TX8030, which has the same processability as LDPE and the same heat stability given by acrylate comonomers. Recommended temperature range is from 270°C up to 320 – 330°C. It is recommended to purge the equipment with LDPE after a run is completed before shutting down.

Storage, handling and safety

LOTADER[®] TX8030 is usually packed in waterproof bags or rigid containers with waterproof liner. It should be stored in dry conditions and be kept out of moisture in an aerated building. Improper storage conditions may cause degradation and could have consequences on physical properties of the product. It is recommended to reseal the bag or the liner after use to protect LOTADER[®] TX8030 against moisture.

Safety data sheet as well as information on handling and storage of LOTADER[®] TX8030 is available upon request to your ARKEMA representative or at www.lotader.com.

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