

# LOTADER<sup>®</sup> 3410

## Ethylene – Acrylic Ester - Maleic Anhydride terpolymer

### DESCRIPTION

LOTADER<sup>®</sup> 3410 is a random terpolymer of ethylene, acrylic ester and maleic anhydride, polymerized by high-pressure autoclave process.

### TYPICAL PROPERTIES

Characteristics	Value	Unit	Test Method
Butyl Acrylate content	17	% Wt	FTIR (internal method)
Maleic Anhydride content	3.1	% Wt	FTIR (internal method)
Melt Index (190°C / 2.16 kg)	5	g/10min	ISO 1133 / ASTM D1238
Melting point	89	°C	ISO 11357-3
Density	0.94	g/cm <sup>3</sup>	ISO 1183 / ASTM D1505
Vicat softening temperature (10N) <sup>(1)</sup>	47	°C	ISO 306 / ASTM D1525
Flexural modulus <sup>(1)</sup>	26	MPa	ISO 178 / ASTM D790
Elongation at break <sup>(1)</sup>	700	%	ISO 527-2 / ASTM D638
Tensile strength at break <sup>(1)</sup>	8	MPa	ISO 527-2 / ASTM D638
Hardness Shore D <sup>(1)</sup>	32		ISO 868 / ASTM D2240

<sup>(1)</sup> On compression molded samples.

### APPLICATIONS

LOTADER<sup>®</sup> 3410 is a versatile adhesive for extrusion coating or lamination, designed as:

- Concentrate to be used in dry blend with LDPE. LOTADER<sup>®</sup> 3410 improves adhesion of LDPE on aluminium foils, metallized or primerized films.
- Ready for use resin to be used pure. LOTADER<sup>®</sup> 3410 gives excellent adhesion on substrates like aluminium foil, metallized plastics, paper, board, PE and some plastic films like BOPP.
- Coextrusion tie layer for PE/PA in extrusion coating process.

LOTADER<sup>®</sup> 3410 is also a coupling agent for mineral filled compounds such as halogen free flame retardant wires and cables, a compatibilizer for polyamide/polyolefin blends and a modifier for polyamides.

For more detailed information and recommendations regarding your specific application, please contact your local ARKEMA technical representative.

### PROCESSING

# LOTADER® 3410

As a result of high-pressure polymerization in autoclave reactor, **LOTADER® 3410** 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® 3410**, 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® 3410** 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® 3410** against moisture.

Safety data sheet as well as information on handling and storage of the **LOTADER® 3410** is available upon request to your ARKEMA representative or on the web site [lotader.com](http://lotader.com).

## SHELF LIFE

Two years from the date of delivery, in unopened packaging. For any use above this limit, please refer to our technical services.

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