

# LOTADER<sup>®</sup> 3210

LOTADER<sup>®</sup> 3210 is a random ethylene-butyl acrylate-maleic anhydride terpolymer (EMA-MAH).

LOTADER<sup>®</sup> 3210 is a versatile adhesive for extrusion coating or lamination, designed as:

- Concentrate to be used in dry blend with LDPE. LOTADER<sup>®</sup> 3210 improves adhesion of LDPE on aluminum foils, metalized or primer-treated films.
- Ready for use resin to be used pure. LOTADER<sup>®</sup> 3210 gives excellent adhesion on substrates like aluminum 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> 3210 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.

## Typical Properties

	Test Method	Unit	Typical Value
Melt Index (190°C/2.16kg)	ISO 1133	g/10min.	5
Butyl Acrylate Content	FTIR (internal method)	%wt.	6
Maleic Anhydride Content	FTIR (internal method)	%wt.	3.1
Melting Point	ISO 11357	°C	107
Vicat Softening Temperature <sup>1</sup>	ISO 306	°C	73
Density	ISO 1183 / ASTM D792	-	0.94
Tensile strength at break <sup>1</sup>	ISO 527 / ASTM D638	MPa	12
Elongation at break <sup>1</sup>	ISO 527 / ASTM D638	%	600
Flexural Modulus <sup>1</sup>	ISO 178	MPa	120
Hardness Shore D <sup>1</sup>	ISO 868 / ASTM D2240	-	46

<sup>1</sup>: On compression molded samples.

The statements, technical information and recommendations contained herein are believed to be accurate as of the date hereof and cannot be used as product specifications. Since the conditions and methods of use of the product and of the information referred to herein are beyond our control, SKFP expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information; NO WARRANTY, EXPRESSED OR IMPLIED, IS MADE CONCERNING THE GOODS DESCRIBED OR THE INFORMATION PROVIDED HEREIN.

The information provided herein relates only to the specific product designated and may not be applicable when such product is used in combination with other materials or in any process. The user should thoroughly test any application before commercialization. Nothing contained herein constitutes a license to practice under any patent and it should not be construed as an inducement to infringe any patent and the user is advised to take appropriate steps to be sure that any proposed use of the product will not result in patent infringement. See SDS for Health & Safety Considerations.

## Processing

As a result of high-pressure polymerization in autoclave reactor, LOTADER® 3210 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® 3210, 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 & Safety

LOTADER® 3210 is usually packed in waterproof bags or rigid containers with waterproof liner. It should be stored in a ventilated area, away from heat, humidity and direct sunlight. 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® 3210 against moisture.

Safety data sheet as well as information on handling and storage of the LOTADER® 3210 are available upon request to your SK Functional Polymer representative or at [www.sk-fp.com](http://www.sk-fp.com).

## Shelf Life

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