

# LOTADER<sup>®</sup> 4403

LOTADER<sup>®</sup> 4403 is a random ethylene - acrylate ester - maleic anhydride terpolymer.

LOTADER<sup>®</sup> 4403 is a versatile adhesive resin for extrusion lamination/coating, not intended to be diluted.

LOTADER<sup>®</sup> 4403 provides excellent adhesion to various substrates in extrusion lamination process. It bonds to PE, paper, board, metallized films and corona treated PE, OPP, CPP and OPA films.

Typical applications:

- Adhesive for extrusion coating lamination: Film / Tie / Foil.
- Adhesive for extrusion coating of LDPE / Tie / PA / Tie onto paper or films.

## Typical Properties

	Test Method	Unit	Typical Value
Acrylate Content	FTIR (internal method)	%.-wt.	18
Maleic Anhydride Content	FTIR (internal method)	%.-wt.	0.3
Melt Index (190°C/2.16kg)	ISO 1133 / ASTM D1238	g/10min.	8
Melting Point	ISO 11357-3	°C	77
Vicat Softening Temperature (1)	ISO 306 / ASTM D1525	°C	45
Density	ISO 1183 / ASTM D1505	-	0.94
Flexural Modulus (1)	ISO 178 / ASTM D790	MPa	20
Elongation at break (1)	ISO 527-2 / ASTM D638	%	750
Tensile strength at break (1)	ISO 527-2 / ASTM D638	MPa	9
Hardness Shore D (1)	ISO 868 / ASTM D2240	-	25

(1) On compression molded samples.

## Processing

As a result of high-pressure polymerization in autoclave reactor, LOTADER® 4403 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® 4403, 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® 4403 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® 4403 against moisture.

Safety data sheet as well as information on handling and storage of the LOTADER® 4403 is available upon request to your SK Functional Polymer representative or on the web site [lotader.com](http://lotader.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.

The information above is believed to be accurate and represents the best information currently available to us. Your attention is directed to the pertinent Material Safety Data Sheets for the products mentioned herein. All sales are subject to SK Corporation's standard terms and conditions of sale, copies of which are available upon request and which are part of SK Functional Polymer invoices and/or order acknowledgments. Except as expressly provided in SK Corporation's standard terms and conditions of sale, SK Corporation makes no warranty of merchantability or any other warranty, express or implied, with respect to such information, and SK Corporation assumes no liability from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. SK Functional Polymer is a subsidiary of SK Global Chemical.