

LOTADER® 4403

Ethylene – Acrylic Ester - Maleic Anhydride terpolymer

DESCRIPTION

LOTADER® 4403 is a random terpolymer of ethylene, acrylic ester and maleic anhydride, polymerized by high-pressure process.

TYPICAL PROPERTIES

Characteristics	Value	Unit	Test Method
Acrylate content	18	% Wt	FTIR (internal method)
Maleic Anhydride content	0.3	% Wt	FTIR (internal method)
Melt Index (190°C / 2.16 kg)	8	g/10min	ISO 1133 / ASTM D1238
Melting point	77	°C	ISO 11357-3
Density	0.94	g/cm ³	ISO 1183 / ASTM D1505
Vicat softening point	45	°C	ISO 306 / ASTM D1525
Elongation at break ⁽¹⁾	750	%	ASTM D 638 / ISO R 527
Tensile strength at break ⁽¹⁾	9	MPa	ASTM D 638 / ISO R 527
Flexural modulus ⁽¹⁾	20	MPa	ASTM D 790 / ISO 178
Hardness Shore D ⁽¹⁾	25	-	ASTM D 2240

⁽¹⁾ On compression molded samples.

APPLICATIONS

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

LOTADER® 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.

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

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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 AND SAFETY

LOTADER® 4403 should be stored in standard conditions and protected from UV-light. Improper storage conditions may cause degradation and could have consequences on physical properties of the product.

Safety data sheet as well as information on handling and storage of the **LOTADER® 4403** are available upon request to your ARKEMA representative or on the web site 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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See MSDS for Health & Safety Considerations

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