# 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/cm³	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

<sup>(1)</sup> 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.



## **LOTADER®** 4403

#### **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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