

LOTADER[®] 4403

LOTADER[®] 4403 is a random ethylene - acrylate ester - maleic anhydride terpolymer.

- 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.

Typical Properties

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

¹: On compression molded samples.

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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 & Safety

LOTADER® 4403 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® 4403 against moisture.

Safety data sheet as well as information on handling and storage of the LOTADER® 4403 are available upon request to your SK Functional Polymer representative or at 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.