

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
Acrylate Content	FTIR (internal method)	%.-wt.	18
Maleic Anhydride Content	FTIR (internal method)	%.-wt.	0.3
Melt Index (190°C/2.16kg)	ISO 1133	g/10min.	8
Melting Point	ISO 11357 / ASTM D3418	°C	77
Vicat Softening Temperature (1)	ISO 306 / ASTM D1525	°C	45
Density	ISO 1183	g/cm ³	0.94
Flexural Modulus (1)	ISO 178	MPa	20
Elongation at break (1)	ISO 527 / ASTM D638	%	750
Tensile strength at break (1)	ISO 527 / 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.

