

LOTADER[®] 2308

TERPOLYMER Ethylene – Acrylic Ester– Maleic Anhydride

Description

LOTADER 2308 is a random terpolymer of Ethylene, Acrylic Ester and Maleic Anhydride, polymerized by high pressure autoclave process.

Main applications

Functional groups contribute to the outstanding adhesive properties of **LOTADER 2308** on various substrates. **LOTADER 2308** is mainly used as a thermoadhesive film.

Typical characteristics

Characteristics	Value	Unit	Test Method
Melt index (190°C / 2,16 kg)	3	g/10mn	ASTM D 1238
Ethyl Acrylate Content	9	% wt	IRTF (internal)
Maleic Anhydride content	1.5	% wt	IRTF (internal)

Main properties

- As an ethylene copolymer, **LOTADER 2308** is compatible with LDPE in all proportions, and with almost all other ethylene copolymers.
- Acrylic Ester brings softness and polarity, while keeping high thermal stability during processing.
- Maleic Anhydride gives reactivity, leading to very versatile adhesive properties to polar and non polar substrates (thermoadhesive film) and to molten polymers (coextrusion).

Processing

- Standard polyolefin extrusion equipment can be used for **LOTADER 2308**, which has the same processability as LDPE and is not corrosive.
- Heat stability of acrylate comonomers allows processing temperatures as high as for LDPE.
- In thermoadhesive films, the processing window is between 120°C to 150°C.
- Purging **LOTADER 2308** is readily achieved using LDPE, and it is recommended to do it before shutdown.

Physical properties

Characteristics	Value	Unit	Test Method
Density (23°C)	0.94	-	ISO 1183
Melting point	112	°C	DSC
Vicat softening point (1 kg)	65	°C	ASTM D 1525 / ISO 306
Elongation at break ⁽¹⁾	600	%	ASTM D 638 / ISO R 527
Tensile strength at break ⁽¹⁾	15	MPa	ASTM D 638 / ISO R 527
Flexural modulus ⁽¹⁾	77	MPa	ASTM D 790 / ISO 178

(1) On compression molded samples.

Packaging

LOTADER 2308 is commonly packed in 25 kg waterproof bags or 500 kg rigid containers with waterproof liner. It is recommended to reseal the bag or the liner after partial use to protect **LOTADER 2308** against moisture.

Security / Precautions of use

A safety data sheet as well as information on handling and storage of the **LOTADER 2308** are available close to your correspondent ARKEMA or on the site www.arkemagroup.com under heading FDS.

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