

# LOTADER<sup>®</sup> 8200

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## TERPOLYMER Ethylene – Acrylic Ester– Maleic Anhydride

### Description

**LOTADER 8200** is a random terpolymer of Ethylene, Acrylic Ester and Maleic Anhydride, polymerized under high pressure in an autoclave process.

### Main applications

Due to its properties (reactivity, fluidity), **LOTADER 8200** is an additive of choice for hot melt adhesives formulation. **LOTADER 8200** can also be used as a modifier (processing aid) for rubbers of high hardness.

### Typical characteristics

Characteristics	Value	Unit	Test Method
Melt index (190°C / 2,16 kg)	200	g/10mn	ASTM D 1238
Ethyl Acrylate content	6.5	% wt	IRTF (internal)
Maleic Anhydride content	2.8	% wt	IRTF (internal)

### Main properties

- Acrylic Ester brings some 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 (rubber, plastic films, paper, cardboard, aluminium foil, steel & glass) and good interactions with mineral fillers (coupling agent).
- As an ethylene copolymer, **LOTADER 8200** is compatible with LDPE in all proportions, and with almost all other ethylene copolymers.
- **LOTADER 8200** is also compatible with tackifying resins and waxes. Combined with a high fluidity, it's a useful product for hot melt adhesives formulation.
- As a result of the high fluidity (melt index = 200), **LOTADER 8200** can also be used as a modifier (processing aid) for rubbers of high hardness.

## Processing

- Heat stability of acrylate comonomers allows processing temperatures as high as 300°C.
- **LOTADER 8200** is not corrosive. However, to minimize the generation of gels, it is recommended to purge the equipment after a run is completed.

## Physical properties

Characteristics	Value	Unit	Test Method
Density (23°C)	0.94	g/cm <sup>3</sup>	ISO 1183
Acid Index	17	mg KOH/g	Titration
Melting point	100	°C	DSC
Vicat softening point (1 kg)	61	°C	ASTM D 1525 / ISO 306
Ring & Ball temperature	112	°C	ASTM E28
Elongation at break <sup>(1)</sup>	400	%	ASTM D 638 / ISO R 527
Tensile strength at break <sup>(1)</sup>	8	MPa	ASTM D 638 / ISO R 527
Flexural modulus <sup>(1)</sup>	40	MPa	ASTM D 790 / ISO 178
Hardness Shore D <sup>(1)</sup>	26	-	ASTM D 2240

(1) On compression molded samples.

## Packaging

**LOTADER 8200** is commonly packed in 25 kg waterproof bags. It is recommended to reseal the bag after a partial use to protect **LOTADER 8200** against moisture.

## Security / Precautions of use

A safety data sheet as well as information on handling and storage of the **LOTADER 8200** are available close to your correspondent ARKEMA or on the site [www.arkemagroup.com](http://www.arkemagroup.com) under heading FDS.

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