

LOTADER[®] TX 8030

TERPOLYMER Ethylene – Acrylic Ester– Maleic Anhydride

Description

LOTADER TX 8030 is a random terpolymer of Ethylene, Acrylic Ester and Maleic Anhydride, polymerized by high pressure autoclave process.

Main applications

LOTADER TX 8030 is an adhesive designed for extrusion coating and extrusion lamination of paper, aluminium and polyethylene films. **LOTADER TX 8030** can be used pure or blended with polyethylene.

Typical characteristics

Characteristics	Value	Unit	Test Method
Melt index (190°C / 2,16 kg)	3	g/10mn	ASTM D 1238
Ethyl acrylate Content	13	% wt	IRTF (internal)
Maleic Anhydride content	2.8	% wt	IRTF (internal)

Main properties

- As an ethylene copolymer, **LOTADER TX 8030** 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 (in coating / lamination), and to molten polymers (in coextrusion).
- Optimized performance for plain primerless OPET, provided corona treatment can be used.
- As a result of high pressure polymerization in autoclave reactor, **LOTADER TX 8030** molecular structure and rheology are remarkably suitable for extrusion coating / lamination : low neck-in, excellent melt stability and drawability.
- **LOTADER TX 8030** pellets are not moisture sensitive.

Processing

- Standard polyolefin extrusion equipment can be used for **LOTADER TX 8030**, which has the same processability as LDPE and is not corrosive.
- Heat stability of acrylate comonomers allows processing temperatures as high as for LDPE. Recommended temperature is 230 – 240°C in case of coextrusion coating with EVOH, and ranges from 270°C up to 320 – 330°C in other cases.
- Purging **LOTADER TX 8030** 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	95	°C	DSC
Vicat softening point (1 kg)	65	°C	ASTM D 1525 / ISO 306
Elongation at break ⁽¹⁾	700	%	ASTM D 638 / ISO R 527
Tensile strength at break ⁽¹⁾	12	MPa	ASTM D 638 / ISO R 527
Flexural modulus ⁽¹⁾	130	MPa	ASTM D 790 / ISO 178
Hardness Shore D ⁽¹⁾	36	-	ASTM D 2240 / ISO 868

(1) On compression molded samples.

Packaging

LOTADER TX 8030 is commonly packed in 500 kg rigid containers with an inner waterproof bag. The inner bag must be kept perfectly closed. It is recommended to reseal the inner bag after a partial use to protect **LOTADER TX 8030** against moisture. During storage time, the material must be kept out of moisture in an aerated building at temperature lower than 50°C (122°F). **LOTADER TX 8030** can also be available in 25 kg bags and 1000 kg octabins.

Security / Precautions of use

A safety data sheet as well as information on handling and storage of the **LOTADER TX 8030** are available close to your correspondent ARKEMA or on the site www.arkemagroup.com under heading FDS.

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Technical Polymers Division
4/8, cours Michelet – La Défense 10
92800 Puteaux - France
www.arkemagroup.com

www.lotader.com