

LOTADER[®] 4700T

LOTADER[®] 4700T is a random ethylene - ethyl acrylate - maleic anhydride terpolymer.

LOTADER[®] 4700T resins:

- Acrylic ester brings softness and polarity, while keeping high thermal stability during processing.
- The high content of acrylic ester leads to high flexibility (low-cristallinity) and high impact absorption behaviour.
- Maleic anhydride gives reactivity (towards OH and NH₂ groups), leading to optimal dispersion during melt mixing with engineering thermoplastics (mainly polyamides).

LOTADER[®] 4700T is suitable as modifier to improve the impact strength of polyamides (PA6, PA66, PA12 etc.).

Its high processability allows to dry blend Lotader 4700T with polyamide and process it by direct injection molding.

It can also be used as a compatibilizer for polyamides and polyolefins blends.

Typical Properties

	Test Method	Unit	Typical Value
Ethyl Acrylate Content	FTIR (internal method)	%.-wt.	29
Maleic Anhydride Content	FTIR (internal method)	%.-wt.	1.3
Melt Index (190°C/2.16kg)	ISO 1133 / ASTM D1238	g/10min.	7
Melting Point	ISO 11357-3	°C	79
Vicat Softening Temperature	ISO 306 / ASTM D1525	°C	< 40
Flexural Modulus	ISO 178 / ASTM D790	MPa	< 20

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Processing

Heat stability of acrylate comonomers allows processing temperatures as high as for polyamides. However, to minimize the generation of gels, it is recommended to purge the equipment with LDPE after a run is completed.

LOTADER® 4700T is not corrosive.

Storage, Handling & Safety

LOTADER® 4700T is usually packed in bags or rigid containers with 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

Safety data sheet as well as information on handling and storage of the LOTADER® 4700T is available upon request to your SK Functional Polymer representative or on the web site lotader.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.

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