

# LOTADER<sup>®</sup> AX8700

LOTADER<sup>®</sup> AX8700 is a random ethylene - butyl acrylate - glycidyl methacrylate terpolymer (E-BA-GMA).

- Acrylic ester brings softness and polarity, while keeping high thermal stability during processing.
- The high content of acrylic ester leads to high flexibility (low crystallinity) and high impact absorption behaviour.
- Glycidyl methacrylate gives reactivity (versus OH, COOH and NH<sub>2</sub> groups), leading to optimal dispersion during melt mixing with engineering thermoplastics.
- As an ethylene copolymer, LOTADER<sup>®</sup> AX8700 is compatible with LDPE in all proportions, and with almost all other ethylene copolymers.

LOTADER<sup>®</sup> AX8700 is suitable as:

- additive to improve impact strength of engineering thermoplastics (PPS, PBT, PET) and PC/PBT, PC/PET and PC/ABS alloys
- compatibilizer for polyesters/polyolefins blends
- bitumen performance enhancer / additive for asphalt modification
- adhesion promoter onto metallic surface.

## Typical Properties

	Test Method	Unit	Typical Value
Melt Index (190°C/2.16kg)	ISO 1133	g/10min.	8
Butyl Acrylate Content	FTIR (internal method)	%wt.	25
Glycidyl Methacrylate Content	FTIR (internal method)	%wt.	8
Melting Point	ISO 11357	°C	71
Density	ISO 1183 / ASTM D792	g/cm <sup>3</sup>	0.94
Vicat Softening Temperature (10N) <sup>1</sup>	ISO 306	°C	<40
Flexural Modulus <sup>1</sup>	ISO 178	MPa	<30

<sup>1</sup>: On compression molded samples.

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## Processing

Heat stability of acrylate comonomer allows processing temperatures as high as for polyesters (PBT, PET) and PPS, which are the main material using LOTADER® AX8700 as impact modifier.

**CAUTION:** LOTADER® AX8700 reacts with polymers containing maleic anhydride and acid. This reaction may generate gels or can block an extruder if not controlled. Extruders must be thoroughly purged before and after extruding LOTADER® AX8700.

## Storage, Handling & Safety

LOTADER® AX8700 should be stored in a ventilated area, away from heat, humidity and direct sunlight. Improper storage conditions may cause degradation and could have consequences on physical properties of the product.

Due to its physical properties (Vicat temperature <40°C), it may be possible that the LOTADER® AX8700 shows some caking. This is particularly true during summertime.

Safety data sheet as well as information on handling and storage of the LOTADER® AX8700 are available upon request to your SK Functional Polymer representative or at [www.sk-fp.com](http://www.sk-fp.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.