

LOTADER[®] AX8750T

LOTADER[®] AX8750T 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 NH₂ groups), leading to optimal dispersion during melt mixing with engineering thermoplastics.
- As an ethylene copolymer, LOTADER[®] AX8750T is compatible with LDPE in all proportions, and with most of ethylene copolymers.

LOTADER[®] AX8750T is especially recommended for:

- 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
- Polymer Modified Bitumen (PMB)
- Adhesion promoter onto metallic surface

In Polymer Modified Bitumen (PMB):

- LOTADER[®] AX8750T is a Reactive Elastomeric Terpolymer (RET) technology commonly used to enhance bitumen rheological performance, enabling compliance with Superpave and Marshall mix design requirements.
- LOTADER[®] AX8750T enhances low-temperature flexibility, reducing susceptibility to thermal cracking, and improves high-temperature stiffness and elasticity of bitumen, resulting in superior rutting resistance under heavy traffic loads.
- Modified binders with LOTADER[®] AX8750T exhibit improved fatigue life, extending pavement service performance under repeated loading cycles.
- Chemically reactive LOTADER[®] AX8750T ensures excellent storage stability of produced PMB.

Typical Properties

	Test Method	Unit	Typical Value
Melt Index (190°C/2.16kg)	ISO 1133	g/10min.	15
Butyl Acrylate Content	FTIR (internal method)	%wt.	27
Glycidyl Methacrylate Content	FTIR (internal method)	%wt.	5
Melting Point	ISO 11357	°C	93
Density	ISO 1183 / ASTM D792	g/cm ³	0.94
Vicat Softening Temperature ¹	ISO 306	°C	<40

¹: 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® AX8750T as impact modifier.

CAUTION: LOTADER® AX8750T 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® AX8750T.

Storage, Handling & Safety

LOTADER® AX8750T 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® AX8750T shows some caking. This is particularly true during summertime.

Safety data sheet as well as information on handling and storage of the LOTADER® AX8750T are available upon request to your SK Functional Polymer representative or at 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.

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