SK functional polymer

Technical Data Sheet
Revision Date: November 2026

LOTADER® AX8930

LOTADER® AX8930 is a random ethylene-methyl acrylate-glycidyl methacrylate terpolymer (EMA-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_2 groups), leading to optimal dispersion during melt mixing with engineering thermoplastics.
- As an ethylene copolymer, LOTADER® AX8930 is compatible with LDPE in all proportions, and with almost all other ethylene copolymers.

LOTADER® AX8930 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 and in some formulated adhesive tapes,
- 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.	6
Methyl Acrylate Content	FTIR (internal method)	%wt.	25
Glycidyl Methacrylate Content	FTIR (internal method)	%wt.	3
Melting Point	ISO 11357	°C	65
Vicat Softening Temperature[1]	ISO 306	°C	<40
Flexural Modulus[1]	ISO 178	MPa	<30

[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® AX8930 as impact modifier.

CAUTION: LOTADER® AX8930 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® AX8930.

Storage, Handling & Safety

LOTADER® AX8930 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® AX8930 shows some caking. This is particularly true during summertime.

Safety data sheet as well as information on handling and storage of the LOTADER® AX8930 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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