

LOTADER[®] AX8900

LOTADER[®] AX8900 is a random ethylene-methyl acrylate-glycidyl methacrylate terpolymer.

- 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 provides reactivity (versus OH, COOH and NH₂ groups), leading to optimal dispersion during melt mixing with engineering thermoplastics.
- As an ethylene copolymer, LOTADER[®] AX8900 is compatible with LDPE in all proportions, and with almost all other ethylene copolymers.

LOTADER[®] AX8900 is suitable as an additive to improve impact strength of engineering thermoplastics (PPS, PBT, PET) and PC/PBT, PC/PET and PC/ABS alloys. Lotader[®] AX8900 can be used as a compatibiliser for polyesters/polyolefins blends and in some formulated adhesive tapes.

Typical Properties

	Test Method	Unit	Typical Value
Methyl Acrylate Content	FTIR (internal method)	%.-wt.	24
Glycidyl Methacrylate Content	FTIR (internal method)	%.-wt.	8
Melt Index (190°C/2.16kg)	ISO 1133 / ASTM D1238	g/10min.	6
Melting Point	ISO 11357-3	°C	65
Density	ISO 1193 / ASTM D150	g/cm ³	0.94
Vicat Softening Temperature (10N) ¹	ISO 306 / ASTM D1525	°C	<40
Flexural Modulus ¹	ISO 178 / ASTM D790	MPa	<30
Elongation at Break ¹	ISO 527-2 / ASTM D638	%	1100
Tensile Strength at Break ¹	ISO 527-2 / ASTM D638	MPa	4

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.

CAUTION: LOTADER® AX8900 reacts with polymers containing maleic anhydride and acid. This reaction may generate gels and can block an extruder if not controlled. Extruders must be thoroughly purged before and after extruding extrusion.

Storage, Handling & Safety

LOTADER® AX8900 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.

Due to its physical properties (Vicat temperature <40°C), it may be possible that the LOTADER® AX8900 shows some caking. This is particularly true during summer time.

Safety data sheet as well as information on handling and storage of the LOTADER® AX8900 are available upon request to your SK Functional Polymer representative.

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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