

LOTADER[®] AX8840

LOTADER[®] AX8840 is a random ethylene - glycidyl methacrylate copolymer (E-GMA).

- 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[®] AX8840 is compatible with LDPE in all proportions, and with almost all other ethylene copolymers.
- LOTADER[®] AX8840 exhibits good adhesion on PET, PBT, PPS, metal, paper, glass.

Due to its reactivity induced by the glycidyl methacrylate LOTADER[®] AX8840 can be used as:

- a compatibilizer for polyesters/polyolefins blends,
- a bitumen performance enhancer / additive for asphalt modification,
- an adhesive for some laminate structures (polyolefins/polyesters, polyolefins/PPS etc.).

Typical Properties

	Test Method	Unit	Typical Value
Melt Index (190°C/2.16kg)	ISO 1133	g/10min.	5
Glycidyl Methacrylate Content	FTIR (internal method)	%wt.	8
Melting Point	ISO 11357	°C	104
Density	ISO 1183 / ASTM D792	g/cm ³	0.94
Vicat Softening Temperature (10N) ¹	ISO 306	°C	87
Flexural Modulus ¹	ISO 178	MPa	85

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® AX8840 as impact modifier.

CAUTION: LOTADER® AX8840 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® AX8840.

Storage, Handling & Safety

LOTADER® AX8840 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.

Safety data sheet as well as information on handling and storage of the LOTADER® AX8840 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.