

# LOTADER<sup>®</sup> AX8840

LOTADER<sup>®</sup> AX8840 is a random ethylene - glycidyl methacrylate copolymer (E-GMA).

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

Due to its reactivity induced by the glycidyl methacrylate, LOTADER<sup>®</sup> AX8840 can be use as a compatibilizer for polyesters/polyolefins blends and as an adhesive for some laminate structures (polyolefins/polyesters, polyolefins/PPS etc.).

## Typical Properties

|                               | Test Method            | Unit     | Typical Value |
|-------------------------------|------------------------|----------|---------------|
| Glycidyl Methacrylate Content | FTIR (internal method) | %.-wt.   | 8             |
| Melt Index (190°C/2.16kg)     | ISO 1133 / ASTM D1238  | g/10min. | 5             |
| Melting Point                 | ISO 11357-3            | °C       | 104           |
| Vicat Softening Temperature   | ISO 306 / ASTM D1525   | °C       | 87            |
| Flexural Modulus              | ISO 178 / ASTM D790    | MPa      | 85            |

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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 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.

Safety data sheet as well as information on handling and storage of the LOTADER® AX8840 is available upon request to your SK Functional Polymer representative or on the web site [lotader.com](http://lotader.com).

## Shelf Life

Two 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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