

# LOTADER<sup>®</sup> AX8930

## Reactive Ethylene - Acrylate - Glycidyl Methacrylate terpolymer

### DESCRIPTION

Reactive random terpolymer of ethylene, methyl acrylate and glycidyl methacrylate (**epoxide** function) produced by high-pressure polymerization process.

- Reactivity with –OH, –COOH, –NH<sub>2</sub>, –HS.
- Compatibility with PET, PBT, PPS, PE.
- Adhesion to metallic surface.
- Good thermal stability.

### PROVISIONAL PROPERTIES

Characteristics	Typical Value	Unit	Test Method
Methyl Acrylate content	22 - 28	% Wt	internal method
Glycidyl Methacrylate content	1 - 6	% Wt	internal method
Melt Index (190°C / 2.16 kg)	4 - 8	g/10min	ISO 1133 / ASTM D1238
Melting point	65	°C	ISO 11357-3
Density	0.94	g/cm <sup>3</sup>	ISO 1183 / ASTM D1505
Vicat softening point (10N) <sup>(1)</sup>	<40	°C	ISO 306 / ASTM D1525
Elongation at break <sup>(1)</sup>	>1000	%	ISO R 527-2 / ASTM D638
Tensile strength at break <sup>(1)</sup>	4	MPa	ISO R 527-2 / ASTM D638
Hardness Shore A/D (at 1s) <sup>(1)</sup>	65 / 19	-	ISO 868 / ASTM D2240

<sup>(1)</sup> On compression molded samples.

### APPLICATIONS

Impact modification of thermoplastic polyesters (PBT/PET/PCT) and their alloys (e.g. PC/PBT).

Impact modification, flexibilization and tie layer of polyphenylene sulphides (PPS).

Compatibilizer for thermoplastic polyesters / polyolefins blends (PET/PO, PBT/PO).

Adhesion promoter onto metallic surface.

For more detailed information and recommendations regarding your specific application, please contact your local ARKEMA technical representative.

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## PROCESSING

Heat stability of acrylate comonomers allows processing temperatures as high as needed for polyesters (PBT, PET) and PPS resins.

**CAUTION:** LOTADER® AX (GMA grades) 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 extrusion.

## STORAGE, HANDLING AND SAFETY

**LOTADER®** 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 **LOTADER® AX8930** granules show some caking.

Safety data sheet as well as information on handling and storage is available upon request to your ARKEMA 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 ARKEMA.

June 2018

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