

# LOTADER<sup>®</sup> AX8900T

LOTADER<sup>®</sup> AX8900T is a random ethylene-methyl acrylate-glycidyl methacrylate terpolymer (E-MA-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<sub>2</sub> groups), leading to optimal dispersion during melt mixing with engineering thermoplastics.

## Targeted 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	g/10min.	6
Melting Point	ISO 11357-3	°C	93

## 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<sup>®</sup> AX8900T as impact modifier.

**CAUTION:** LOTADER<sup>®</sup> AX8900T 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<sup>®</sup> AX8900T.

## Storage, Handling & Safety

LOTADER<sup>®</sup> AX8900T 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<sup>®</sup> AX8900T shows some caking. This is particularly true during summertime.

