

# Lotader® AX 8840

Ethylene Methyl Acrylate Copolymer

Arkema

## Message:

LOTADER® AX8840 is a random copolymer of ethylene and glycidyl methacrylate, polymerized by high-pressure autoclave process. 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.

**Applications**

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

General Information			
Features	Dispersible		
	Good Adhesion		
	Random Copolymer		
Uses	Adhesives		
	Laminates		
	Plastics Modification		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density	0.940	g/cm <sup>3</sup>	ISO 1183, ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	5.0	g/10 min	ASTM D1238, ISO 1133
Glycidyl Methacrylate Content	8.0	wt%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 1 sec, Compression Molded)	50		ASTM D2240, ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break, Compression Molded)	8.00	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Break, Compression Molded)	400	%	ASTM D638, ISO 527-2
Flexural Modulus (Compression Molded)	85.0	MPa	ASTM D790, ISO 178
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	87.0	°C	ISO 306/A, ASTM D1525 <sup>1</sup>
Melting Temperature	106	°C	ISO 11357-3
NOTE			
1.	Loading 1 (10 N)		

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