Lotader® AX 8900

Ethylene Methyl Acrylate Acrylic Acid

Arkema

Message:

LOTADER® AX8900 is a random terpolymer of ethylene, acrylic ester and glycidyl methacrylate, polymerized by high-pressure autoclave process.
Acrylic ester brings softness and polarity, while keeping high thermal stability during processing.
The high content of acrylic ester leads to high flexibility (low cristallinity) and high impact absorption behaviour.
Glycidyl methacrylate gives reactivity (versus OH, COOH and NH 2 groups), leading to optimal dispersion during melt mixing with engineering thermoplastics.
As an ethylene copolymer, LOTADER® AX8900 is compatible with LDPE in all proportions, and with almost all other ethylene copolymers.
LOTADER® AX8900 exhibits good adhesion on PET, PBT, PPS, metal, paper, and glass.
Applications
Due to its properties, LOTADER® AX8900 is suitable as additive (toughener) to improve the impact strength of engineering thermoplastics like polyesters (PBT, PET), PC/PBT and PC/ABS alloys, PPS. It can also be use as a compatibilizer for polyesters/polyolefins blends and in some formulated adhesive tapes.
For more detailed information and recommendations regarding your specific application, please contact your local ARKEMA technical representative.

General Information			
Features	Dispersible Good Adhesion Good Flexibility Good Thermal Stability High Impact Resistance High Reactivity Terpolymer		
Uses	Adhesives Laminates Plastics Modification		
Forms	Pellets		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.940	g/cm³	ISO 1183, ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	6.0	g/10 min	ASTM D1238, ISO 1133
Methyl Acrylate Content	24.0	wt%	
Glycidyl Methacrylate Content	8.0	wt%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness			ASTM D2240, ISO 868
Shore A, 1 sec, Compression Molded	64		
Shore D, 1 sec, Compression Molded	18		
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Break, Compression Molded)	4.00	MPa	ASTM D638, ISO 527-2

Tensile Elongation (Break, Compression Molded)	1100	%	ASTM D638, ISO 527-2
Flexural Modulus (Compression Molded)	< 30.0	MPa	ASTM D790, ISO 178
Thermal	**Nominal Value**	**Unit**	**Test Method**
Vicat Softening Temperature	< 40.0	°C	ISO 306/A, ASTM D1525 [1]
Melting Temperature	65.0	°C	ISO 11357-3
NOTE			
1.	Loading 1 (10 N)		

Recommended distributors for this material

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