

# Lotader® 4700

Ethylene Ethyl Acrylate Copolymer

Arkema

## Message:

LOTADER® 4700 is a random terpolymer of ethylene, acrylic ester and maleic anhydride, 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. Maleic anhydride gives reactivity (versus OH and NH 2 groups), leading to optimal dispersion during melt mixing with engineering thermoplastics (mainly polyamides).

**Applications**

Due to its properties (softness, reactivity), LOTADER® 4700 is suitable as modifier to improve the impact strength of polyamides (PA6, PA66, PA12 etc.). It can also be used as a compatibilizer for polyamides / polyolefins blends.

General Information			
Features	Dispersible		
	Good Flexibility		
	Good Thermal Stability		
	High Impact Resistance		
	High Reactivity		
	Non-Corrosive		
	Soft		
	Terpolymer		
Uses	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)	7.0	g/10 min	ASTM D1238, ISO 1133
Ethyl Acrylate Content	29.0	wt%	
Maleic Anhydride Content	1.3	wt%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break, Compression Molded)	5.00	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Break, Compression Molded)	800	%	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 <sup>1</sup>
Melting Temperature	65.0	°C	ISO 11357-3
NOTE			
1.	Loading 1 (10 N)		

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