

Ethylene – Acrylic Ester– Maleic Anhydride terpolymer

Description

LOTADER[®] 8200 is a random terpolymer of ethylene, acrylic ester and maleic anhydride, polymerized by high-pressure autoclave process.

Applications

Due to its properties (reactivity, high fluidity), LOTADER[®] 8200 is suitable as an additive for hot melt adhesive formulations and as coupling agent between mineral fillers and polymers. LOTADER[®] 8200 can also be used as a modifier (processing aid) for rubbers of high hardness.

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

Typical properties

Characteristics	Value	Unit	Test Method
Ethyl Acrylate content	6.5	% Wt	FTIR (internal)
Maleic Anhydride content	2.8	% Wt	FTIR (internal)
Melt index (190°C / 2.16 kg)	200	g/10min	ISO 1133 / ASTM D1238
Melting point	100	°C	ISO 11357-3
Density	0.94	g/cm ³	ISO 1183 / ASTM D1505
Vicat softening temperature (10N) ⁽¹⁾	57	°C	ISO 306 / ASTM D1525
Flexural modulus ⁽¹⁾	40	MPa	ISO 178 / ASTM D790
Elongation at break ⁽¹⁾	400	%	ISO 527-2 / ASTM D638
Tensile strength at break ⁽¹⁾	6	MPa	ISO 527-2 / ASTM D638
Hardness Shore D ⁽¹⁾	26	-	ISO 868 / ASTM D 2240

⁽¹⁾ On compression molded samples.

Processing

If extruded, standard polyolefin extrusion equipment can be used for LOTADER[®] 8200, which has the same processability as LDPE and the same heat stability given by acrylate comonomers. It is recommended to avoid a processing temperature above 300°C. However, to minimize the generation of gels, it is recommended to purge the equipment after a run is completed before shutting down.

LOTADER[®] 8200 is not corrosive.

Storage, handling and safety

LOTADER[®] 8200 is usually packed in waterproof bags or rigid containers with waterproof liner. It 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. It is recommended to reseal the bag or the liner after use to protect LOTADER[®] 8200 against moisture.

Safety data sheet as well as information on handling and storage of the LOTADER[®] 8200 is available upon request to your ARKEMA representative or on the web site www.lotader.com.

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