

# LOTADER® 5500

## Ethylene – Acrylic Ester - Maleic Anhydride terpolymer

### DESCRIPTION

LOTADER® 5500 is a random terpolymer of ethylene, acrylic ester and maleic anhydride, polymerized by high-pressure autoclave process.

### TYPICAL PROPERTIES

| Characteristics                                  | Value | Unit              | Test Method            |
|--------------------------------------------------|-------|-------------------|------------------------|
| Ethyl Acrylate content                           | 20    | % Wt              | FTIR (internal method) |
| Maleic Anhydride content                         | 2.8   | % Wt              | FTIR (internal method) |
| Melt Index (190°C / 2.16 kg)                     | 20    | g/10min           | ISO 1133 / ASTM D1238  |
| Melting point                                    | 80    | °C                | ISO 11357-3            |
| Density                                          | 0.94  | g/cm <sup>3</sup> | ISO 1183 / ASTM D1505  |
| Vicat softening temperature (10N) <sup>(1)</sup> | 45    | °C                | ISO 306 / ASTM D1525   |
| Flexural modulus <sup>(1)</sup>                  | 45    | MPa               | ISO 178 / ASTM D790    |
| Elongation at break <sup>(1)</sup>               | 700   | %                 | ISO 527-2 / ASTM D638  |
| Tensile strength at break <sup>(1)</sup>         | 10    | MPa               | ISO 527-2 / ASTM D638  |
| Hardness Shore A <sup>(1)</sup>                  | 93    |                   | ISO 868 / ASTM D2240   |

<sup>(1)</sup> On compression molded samples.

### APPLICATIONS

Due to its properties, reactivity, fluidity and compatibility with tackifying resins and waxes, LOTADER® 5500 is suitable as additive for hot melt adhesive formulations and as coupling agent in mineral filled compounds.

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

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## PROCESSING

Standard polyolefin extrusion equipment can be used for **LOTADER® 5500**, which has the same processability as LDPE and the same heat stability given by acrylate comonomers. Recommended temperature range is from 270°C up to 320 – 330°C. It is recommended to purge the equipment with LDPE after a run is completed before shutting down.

## STORAGE, HANDLING AND SAFETY

**LOTADER® 5500** 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® 5500** against moisture.

Safety data sheet as well as information on handling and storage of the **LOTADER® 5500** is available upon request to your ARKEMA representative or on the web site [lotader.com](http://lotader.com).

## SHELF LIFE

Two years from the date of delivery, in unopened packaging. For any use above this limit, please refer to our technical services.

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See MSDS for Health & Safety Considerations.

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