LOTADER® 3430

Ethylene - Acrylic Ester - Maleic Anhydride terpolymer

DESCRIPTION
LOTADER® 3430 is a random terpolymer of ethylene, acrylic ester and maleic anhydride, polymerized by high-pressure autoclave process.

TYPICAL PROPERTIES

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Value</th>
<th>Unit</th>
<th>Test Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl Acrylate content</td>
<td>15</td>
<td>% Wt</td>
<td>FTIR (internal method)</td>
</tr>
<tr>
<td>Maleic Anhydride content</td>
<td>3.1</td>
<td>% Wt</td>
<td>FTIR (internal method)</td>
</tr>
<tr>
<td>Melt Index (190°C / 2.16 kg)</td>
<td>6</td>
<td>g/10min</td>
<td>ISO 1133 / ASTM D1238</td>
</tr>
<tr>
<td>Melting point</td>
<td>84</td>
<td>°C</td>
<td>ISO 11357-3</td>
</tr>
<tr>
<td>Density</td>
<td>0.94</td>
<td>g/cm³</td>
<td>ISO 1183 / ASTM D1505</td>
</tr>
<tr>
<td>Vicat softening temperature (10N)(1)</td>
<td>45</td>
<td>°C</td>
<td>ISO 306 / ASTM D1525</td>
</tr>
<tr>
<td>Flexural modulus(1)</td>
<td>25</td>
<td>MPa</td>
<td>ISO 178 / ASTM D790</td>
</tr>
<tr>
<td>Elongation at break(1)</td>
<td>750</td>
<td>%</td>
<td>ISO 527-2 / ASTM D638</td>
</tr>
<tr>
<td>Tensile strength at break(1)</td>
<td>12</td>
<td>MPa</td>
<td>ISO 527-2 / ASTM D638</td>
</tr>
<tr>
<td>Hardness Shore D(1)</td>
<td>30</td>
<td></td>
<td>ISO 868 / ASTM D2240</td>
</tr>
</tbody>
</table>

(1) On compression molded samples.

APPLICATIONS
LOTADER® 3430 is a versatile adhesive for extrusion coating or lamination, designed as:

- Concentrate to be used in dry blend with LDPE. LOTADER® 3430 improves adhesion of LDPE on aluminium foils, metallized or primerized films.
- Ready for use resin to be used pure. LOTADER® 3430 gives excellent adhesion on substrates likes aluminium foil, metallized plastics, paper, board, PE and some plastic films like BOPP.
- Coextrusion tie layer for PE/PA in extrusion coating process.

LOTADER® 3430 is also a coupling agent for mineral filled compounds such as halogen free flame retardant wires and cables, a compatibilizer for polyamide/polyolefin blends and a modifier for polyamides.

For more detailed information and recommendations regarding your specific application, please contact your local ARKEMA technical representative.
LOTADER® 3430

PROCESSING

As a result of high-pressure polymerization in autoclave reactor, LOTADER® 3430 molecular structure and rheology are remarkably suitable for all kinds of extrusion, including extrusion coating/lamination: low neck-in, excellent melt stability and drawability.

Standard polyolefin extrusion equipment can be used for LOTADER® 3430, 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® 3430 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® 3430 against moisture.

Safety data sheet as well as information on handling and storage of the LOTADER® 3430 is available upon request to your ARKEMA representative or on the web site 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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