Elvaloy® AC resins Product Data Sheet

### Description

**Product Description**
Elvaloy® AC 3427 is a copolymer of ethylene and butyl acrylate. It is available in pellet form for use in conventional extrusion equipment designed to process polyethylene type resins.

### Restrictions

**Material Status**
- Commercial: Active

### Typical Characteristics

**Composition**
27 % By Weight Butyl Acrylate comonomer content

### Typical Properties

**Physical**
- **Density (*)**
  - Nominal Values: 0.926 g/cm³
  - Test Method(s): ASTM D792, ISO 1183
- **Melt Flow Rate (190°C/2.16kg)**
  - Nominal Values: 4 g/10 min
  - Test Method(s): ASTM D1238, ISO 1133

**Thermal**
- **Melting Point (DSC)**
  - Nominal Values: 94°C (201°F)
  - Test Method(s): ASTM D3418, ISO 3146
- **Vicat Softening Point ()**
  - Nominal Values: 45°C (113°F)
  - Test Method(s): ASTM D1525, ISO 306

### Processing Information

**General**
- **Maximum Processing Temperature**
  - Nominal Values: 310°C (590°F)

**Blown Film Processing**
- **Blown Film Processing Information**
  - Nominal Values: A suggested extrusion set temperature profile is shown below.
  - **Feed Zone**
    - Nominal Values: 135°C (275°F)
  - **Second Zone**
    - Nominal Values: 160°C (320°F)
  - **Third Zone**
    - Nominal Values: 185°C (365°F)
  - **Fourth Zone**
    - Nominal Values: 185°C (365°F)
## Cast Film / Sheet Processing

<table>
<thead>
<tr>
<th>Zone</th>
<th>Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>Feed Zone</td>
<td>160°C (320°F)</td>
</tr>
<tr>
<td>Second Zone</td>
<td>210°C (410°F)</td>
</tr>
<tr>
<td>Third Zone</td>
<td>235°C (455°F)</td>
</tr>
<tr>
<td>Fourth Zone</td>
<td>235°C (455°F)</td>
</tr>
<tr>
<td>Fifth Zone</td>
<td>235°C (455°F)</td>
</tr>
<tr>
<td>Adapter Zone</td>
<td>235°C (455°F)</td>
</tr>
<tr>
<td>Die Zone</td>
<td>235°C (455°F)</td>
</tr>
</tbody>
</table>

## FDA Status Information

ELVALOY® AC 3427 Acrylate Copolymer Resin complies with Food and Drug Administration Regulation 21 CFR 175.105 - - Adhesives. This Regulation describes adhesives that may be used as components of articles intended for use in packaging, transporting, or holding food, subject to the limitations and requirements therein.

ELVALOY® AC 3427 Acrylate Copolymer Resin complies with Food and Drug Administration Regulation 21 CFR 176.180 - - Components of paper and paperboard in contact with dry food, subject to the limitations and requirements therein. This Regulation describes substances that may be used as components of the uncoated and coated food-contact surface of paper and paperboard in contact with dry food (Food Type VIII, identified in 21 CFR 176.170(c), Table 1).

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## Regulatory Information

For information on regulatory compliance outside of the U.S., consult your local DuPont representative.

## Safety & Handling

For information on appropriate Handling & Storage of this polymeric resin, please refer to the Material Safety Data Sheet.

A Product Safety Bulletin, Material Safety Data Sheet, and/or more detailed information on extrusion processing and/or compounding of this polymeric resin for specific applications are available from your DuPont Packaging and Industrial Polymers representative.

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Read and Understand the Material Safety Data Sheet (MSDS) before using this product

### Regional Centres

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Chestnut Run Plaza – Bldg. 730

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This data sheet is effective as of 08/08/2010 12:45:44 PM and supersedes all previous versions.