Elvaloy® AC resins Product Data Sheet

**Description**

**Product Description**
Elvaloy® AC 3717 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**
17 % By Weight Butyl Acrylate comonomer content

**Typical Properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Nominal Values</th>
<th>Test Method(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Physical</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Density ()</td>
<td>0.924 g/cm³</td>
<td>ASTM D792</td>
</tr>
<tr>
<td>Melt Flow Rate (190°C/2.16kg)</td>
<td>7 g/10 min</td>
<td>ASTM D1238</td>
</tr>
<tr>
<td><strong>Thermal</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Melting Point (DSC)</td>
<td>96°C (205°F)</td>
<td>ASTM D3418</td>
</tr>
<tr>
<td>Vicat Softening Point ()</td>
<td>55°C (131°F)</td>
<td>ASTM D1525</td>
</tr>
</tbody>
</table>

**Processing Information**

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

**Cast Film / Sheet Processing**
- Feed Zone 160°C (320°F)
- Second Zone 210°C (410°F)
- Third Zone 235°C (455°F)
- Fourth Zone 235°C (455°F)

A suggested extrusion set temperature profile is shown below.

Elvaloy® AC 3717 is normally processed at melt temperatures ranging from 160°C - 285°C (320°F - 545°F) in extrusion coating or cast film equipment. A typical extrusion coating extruder temperature profile is given below. Actual processing temperatures will be determined by either the specific equipment or one of the other polymers in a coextrusion. Elvaloy® AC 3717 can also be used in cast extrusions and coextrusions. It is easily processed on standard equipment used for low density polyethylene.
Fifth Zone 235°C (455°F)
Adapter Zone 235°C (455°F)
Die Zone 235°C (455°F)

Extrusion Coating / Lamination Processing

<table>
<thead>
<tr>
<th>Zone</th>
<th>Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>Feed Zone</td>
<td>185°C (365°F)</td>
</tr>
<tr>
<td>Second Zone</td>
<td>235°C (455°F)</td>
</tr>
<tr>
<td>Third Zone</td>
<td>260°C (500°F)</td>
</tr>
<tr>
<td>Fourth Zone</td>
<td>285°C (545°F)</td>
</tr>
<tr>
<td>Fifth Zone</td>
<td>285°C (545°F)</td>
</tr>
<tr>
<td>Adapter Zone</td>
<td>285°C (545°F)</td>
</tr>
<tr>
<td>Die Zone</td>
<td>285°C (545°F)</td>
</tr>
</tbody>
</table>

A suggested extrusion set temperature profile is shown below.

FDA Status Information
ELVALOY® AC 3717 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 3717 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).

The information and certifications provided herein are based on data we believe to be reliable, to the best of our knowledge. The information and certifications apply only to the specific material designated herein as sold by DuPont and do not apply to use in any process or in combination with any other material. They are provided at the request of and without charge to our customers. Accordingly, DuPont cannot guarantee or warrant such certifications or information and assumes no liability for their use.

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.

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

Regional Centres
DuPont operates in more than 70 countries. For help finding a local representative, please contact one of the following regional customer contact centers:

Americas  Asia Pacific  Europe / Middle East / Africa
The data listed here fall within the normal range of properties, but they should not be used to establish specification limits nor used alone as the basis of design. The DuPont Company assumes no obligations or liability for any advice furnished or for any results obtained with respect to this information. All such advice is given and accepted at the buyer's risk. The disclosure of information herein is not a licence to operate under, or a recommendation to infringe, any patent of DuPont or others. Since DuPont cannot anticipate all variations in actual end-use conditions, DuPont makes no warranties and assumes no liability in connection with any use of this information.

CAUTION: Do not use DuPont materials in medical applications involving implantations in the human body or contact with internal body fluids or tissues unless the material has been provided from DuPont under a written contract that is consistent with DuPont policy regarding medical applications and expressly acknowledges the contemplated use. For further information, please contact your DuPont representative. You may also request a copy of DuPont POLICY Regarding Medical Applications H-50103-3 and DuPont CAUTION Regarding Medical Applications H-50102-3.

Copyright © 2009 DuPont. The Du Pont Oval Logo, DuPont™, The miracles of science™, and trademarks designated with “®” are registered trademarks or trademarks of E.I. du Pont de Nemours and Company or its affiliates. All rights reserved.