Elvaloy® AC resins Product Data Sheet

**Description**

Product Description

Elvaloy® AC 34035 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

35% By Weight Butyl Acrylate comonomer content

Features

Contains Slip additive.

**Typical Properties**

<table>
<thead>
<tr>
<th>Physical</th>
<th>Nominal Values</th>
<th>Test Method(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Density (g/cm³)</td>
<td>0.93</td>
<td>ASTM D792</td>
</tr>
<tr>
<td>Melt Flow Rate (190°C/2.16kg)</td>
<td>40 g/10 min</td>
<td>ASTM D1238</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Thermal</th>
<th>Nominal Values</th>
<th>Test Method(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melting Point (DSC)</td>
<td>90°C (194°F)</td>
<td>ASTM D3418</td>
</tr>
</tbody>
</table>

**Processing Information**

General

- Maximum Processing Temperature: 310°C (590°F)

General Processing Information

Elvaloy® AC 34035 is normally processed at melt temperatures ranging from 160°C - 235°C (320°F - 455°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 34035 can also be used in cast extrusions and coextrusions. It is easily processed on standard equipment used for low density polyethylene.

**Extrusion Coating/Lamination Processing**

<table>
<thead>
<tr>
<th>Extrusion Coating / Lamination Processing</th>
<th>Nominal Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Feed Zone</td>
<td>135°C (275°F)</td>
</tr>
<tr>
<td>Second Zone</td>
<td>160°C (320°F)</td>
</tr>
<tr>
<td>Third Zone</td>
<td>185°C (365°F)</td>
</tr>
</tbody>
</table>
Fourth Zone 210°C (410°F)
Fifth Zone 210°C (410°F)
Adapter Zone 210°C (410°F)
Die Zone 210°C (410°F)

**FDA Status Information**
ELVALOY® AC 34035 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 34035 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.

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

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DuPont Company
Chestnut Run Plaza – Bldg. 730
974 Centre Road
Wilmington, Delaware
19805 U.S.A.
Toll-Free (USA): 1-800-628-6208
Telephone: 1-302-774-1000
Fax: 1-302-355-4013

**Asia Pacific**
DuPont China Holding Co., Ltd.
Shanghai Branch
399 Keyuan Road, Bldg. 11
Zhangjiang Hi-Tech Park
Pudong New District, Shanghai
P.R. China (Postcode: 201203)
Telephone +86 21 3862 2888
Fax +86-21-3862-2889

**Europe / Middle East / Africa**
DuPont de Nemours Int’l. S.A.
2, Chemin du Pavillon Box 50
CH-1218 Le Grand Saconnex
Geneva, Switzerland
Telephone +41 22 717 51 11
Fax +41 22 717 55 00

DuPont do Brasil, S.A.
Avenue Itapecuru, 506
06454-080 Barueri, SP Brasil
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This data sheet is effective as of 08/08/2010 12:44:59 PM and supersedes all previous versions.