## Description

**Product Description**

Elvaloy® AC 1105S is a copolymer of ethylene and methyl acrylate. It is available in pellet form for use in conventional extrusion equipment designed to process polyethylene type resins.

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## Restrictions

**Material Status**

- Commercial: Active

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## Typical Characteristics

### Composition

4.3 % By Weight Methyl Acrylate comonomer content

### Features

Contains Slip, Antblock, and Antioxidant additives.

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## Typical Properties

### Physical

<table>
<thead>
<tr>
<th>Nominal Values</th>
<th>Test Method(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Density (g/cm³)</td>
<td>ASTM D792 ISO 1183</td>
</tr>
<tr>
<td>Melt Flow Rate (190°C/2.16kg)</td>
<td>ASTM D1238 ISO 1133</td>
</tr>
</tbody>
</table>

### Thermal

<table>
<thead>
<tr>
<th>Nominal Values</th>
<th>Test Method(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melting Point (DSC)</td>
<td>ASTM D3418 ISO 3146</td>
</tr>
<tr>
<td>Vicat Softening Point (°C)</td>
<td>ASTM D1525 ISO 306</td>
</tr>
</tbody>
</table>

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## Processing Information

### General

- **Maximum Processing Temperature**

  310°C (590°F)

### General Processing Information

Elvaloy® AC 1105S is normally processed at melt temperatures ranging from 160°C - 235°C (320°F - 455°F) in blown film or cast film equipment. A typical blown film 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 1105S can also be used in cast extrusions and coextrusions. It is easily processed on standard equipment used for low density polyethylene.

### Blown Film Processing

<table>
<thead>
<tr>
<th>Nominal Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Feed Zone</td>
</tr>
<tr>
<td>Second Zone</td>
</tr>
</tbody>
</table>
ELVALOY® AC 1105S Acrylate Copolymer Resin complies with Food and Drug Administration Regulation 21 CFR 177.1340(a) -- Ethylene-methyl acrylate copolymer resins, subject to the limitations and requirements therein. This Regulation describes polymers that may be used in contact with food, subject to the finished food-contact article meeting the extractive limitations under the intended conditions of use, as shown in paragraph (b) of the Regulation.

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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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974 Centre Road
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Toll-Free (USA): 1-800-628-6208
Telephone: 1-302-774-1000
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DuPont China Holding Co., Ltd.
Shanghai Branch
399 Keyuan Road, Bldg. 11
Zhangjiang Hi-Tech Park
Pudong New District, Shanghai
P.R. China (Postal Code: 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.
Alameda Itapecuru, 506
06454-080 Barueri, SP Brasil
Telephone: +55 11 4166 8000
Fax: +55 11 4166 8736

http://elvaloy.dupont.com
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