DuPont™ Elvax® 450A

Elvax® resins Product Data Sheet

**Description**

Product Description

DuPont™ Elvax® 450A is an ethylene-vinyl acetate copolymer resin for use in industrial applications.

**Restrictions**

Material Status

- Commercial: Active

Availability

- Europe, Middle East

**Typical Characteristics**

Composition

18 % By Weight Vinyl Acetate comonomer content

Thermal Stabilizer: BHT antioxidant

Applications

Elvax® resins can be used in a variety of applications involving molding, compounding, extrusion, adhesives, sealants, and wax blends. For additional information and properties associated with specific applications, please refer to the Grade Selector Guides found on the Elvax® website for industrial applications.


**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>0.941</td>
<td>ASTM D792 ISO 1183</td>
</tr>
<tr>
<td>Melt Flow Rate (190°C/2.16kg)</td>
<td>8 g/10 min</td>
<td>ASTM D1238 ISO 1133</td>
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</tbody>
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<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>86°C (187°F)</td>
<td>ASTM D3418 ISO 3146</td>
</tr>
<tr>
<td>Vicat Softening Point ()</td>
<td>61°C (142°F)</td>
<td>ASTM D1525 ISO 306</td>
</tr>
</tbody>
</table>

**Processing Information**

General

- Maximum Processing Temperature | 230°C (446°F)

General Processing Information

Elvax® resins can be processed by conventional thermoplastic processing techniques, including injection molding, structural foam molding, sheet and shape extrusion, blow molding and wire coating. They can also be processed using conventional rubber processing techniques such as Banbury, two-roll milling and compression molding.

Elvax can be used in conventional extrusion equipment designed to process polyethylene resins. However, corrosion-protected barrels, screws, adapters, and dies are recommended, since, at sustained melt temperatures above 446°F.
Ethylene vinyl acetate (EVA) resins may thermally degrade and release corrosive by-products.

### FDA Status Information

ELVAX® 450A EVA Resin complies with Food and Drug Administration Regulation 21 CFR 177.1350(a)(1) - Ethylene-vinyl acetate copolymers, 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)(1) of the Regulation.

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.

### 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:

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<tr>
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This data sheet is effective as of 10/20/2008 03:24:38 PM and supersedes all previous versions.