Elvax® resins Product Data Sheet

**Description**

**Product Description**

DuPont™ Elvax® 470 is an ethylene-vinyl acetate copolymer resin for use in industrial applications.

**Restrictions**

- **Material Status**: Commercial: Active
- **Availability**: Globally

**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/Melting Point (DSC)</th>
<th>Test Method(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Density (g/cm³) 0.941</td>
<td>ASTM D792 ISO 1183</td>
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<tr>
<td>Melt Flow Rate (190°C/2.16kg) 0.7 g/10 min</td>
<td>ASTM D1238 ISO 1133</td>
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<tr>
<td>Melting Point (DSC) 89°C (192°F)</td>
<td>ASTM D3418 ISO 3146</td>
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<tr>
<td>Vicat Softening Point (DSC) 68°C (154°F)</td>
<td>ASTM D1525 ISO 306</td>
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**Processing Information**

**General**

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

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
(230°C), ethylene vinyl acetate (EVA) resins may thermally degrade and release corrosive by-products.

### FDA Status Information

ELVAX® 470 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.

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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

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

DuPont do Brasil, S.A.  
Alameda Itapecuru, 506  
06454-080 Barueri, SP Brasil  
Telephone: +55 11 4166 8000  
Fax: +55 11 4166 8736

#### 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

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http://elvax.dupont.com
This data sheet is effective as of 08/08/2010 04:41:11 PM and supersedes all previous versions.