

## DuPont Packaging & Industrial Polymers



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### DuPont™ Elvax® 460

#### Elvax® resins Product Data Sheet

##### Description

###### Product Description

DuPont™ Elvax® 460 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. [http://www2.dupont.com/Elvax/en\\_US/tech\\_info/index.html](http://www2.dupont.com/Elvax/en_US/tech_info/index.html)

##### Typical Properties

###### Physical

\* Density ()

###### Nominal Values

###### Test Method(s)

0.941 g/cm<sup>3</sup>

ISO 1183

\* Melt Flow Rate (190°C/2.16kg)

2.5 g/10 min

ASTM D1238

ISO 1133

###### Thermal

\* Melting Point (DSC)

###### Nominal Values

###### Test Method(s)

Vicat Softening Point ()

88°C (190°F)

ASTM D3418

ISO 3146

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64°C (147°F)

ASTM D1525

ISO 306

##### Processing Information

###### General

\* Maximum Processing Temperature  
General Processing Information

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.

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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

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

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**FDA Status Information**

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ELVAX® 460 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.

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**Safety & Handling**

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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**

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