

## 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	Nominal Values	Test Method(s)	
* Density ( )	0.941 g/cm <sup>3</sup>	ASTM D792	ISO 1183
* Melt Flow Rate (190°C/2.16kg)	2.5 g/10 min	ASTM D1238	ISO 1133
Thermal	Nominal Values	Test Method(s)	
* Melting Point (DSC)	88°C (190°F)	ASTM D3418	ISO 3146
Vicat Softening Point ( )	64°C (147°F)	ASTM D1525	ISO 306

#### 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

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

#### FDA Status Information

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.

#### Safety & Handling

A Product Safety Bulletin, Material Safety Data Sheet, and more detailed information on compounding and processing Elvax® resins 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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*The data listed here fall within the normal range of properties, but they should not be used to establish specification limits nor used alone as the basis of design. The DuPont Company assumes no obligations or liability for any advice furnished or for any results obtained with respect to this information. All such advice is given and accepted at the buyer's risk. The disclosure of information herein is not a licence to operate under, or a recommendation to infringe, any patent of DuPont or others. Since DuPont cannot anticipate all variations in actual end-use conditions, DuPont makes no warranties and assumes no liability in connection with any use of this information.*

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