

## 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		
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. <a href="http://www.dupont.com/industrial-polymers/elvax/index.html">http://www.dupont.com/industrial-polymers/elvax/index.html</a>		
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 )	8 g/10 min	ASTM D1238	ISO 1133
Thermal	Nominal Values	Test Method(s)	
*Melting Point ( DSC )	86 °C ( 186.8 °F )	ASTM D3418	ISO 3146
Vicat Softening Point ( )	61 °C ( 141.8 °F )	ASTM D1525	ISO 306
Processing Information			
*Maximum Processing Temperature	235 °C ( 455 °F )		
General Processing Information	<p>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.</p> <p>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 455°F (235°C), ethylene vinyl acetate (EVA) resins may thermally degrade and release corrosive by-products.</p>		
FDA Status Information	<p>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.</p>		

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#### Regulatory Information

For information on regulatory compliance outside of the U.S.A., consult your local DuPont representative.

#### Safety & Handling

##### THE IMPORTANCE OF PROPER HANDLING & STORAGE:

Maintaining proper handling and storage conditions for DuPont™ Elvax® resins is very important to ensure overall product quality and keep the resin in a free-flowing state. If the Elvax® resin is subjected to sunlight, rain or excessive temperatures, then the resin may not process properly or achieve the desired characteristics in the final product.

It is crucial for Elvax® resins to be kept under proper storage and handling conditions because improper storage and handling may cause the resin to “block” (massing of pellets into large clumps that can hinder the ease of material transfer) or lose the ability to flow freely.

Please refer to the Elvax® Handling Guide for additional information.

For additional 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 Performance Materials representative.

## 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

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