# **DuPont Packaging & Industrial Polymers**





# **Elvax® resins Product Data Sheet**

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Product Description DuPont™ Elvax® 4320 is an ethylene-vinyl acetate / acid terpolymer resin for use in

industrial applications.

Restrictions

Material Status 

• Commercial: Active

Availability • Globally

**Typical Characteristics** 

Composition 25 % By Weight Vinyl Acetate comonomer content

1 wt% Methacrylic Acid

Thermal Stabilizer: BHT antioxidant

Characteristics / Benefits Intermediate molecular weight resin higher in viscosity than Elvax®4310 and

intermediate in performance between Elvax®4310 and 4355. Can be combined (as can Elvax®4310) with Elvax®4355 or 4260 to optimize performance at a desired

viscosity level.

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

Typical Properties

Physical Nominal Values Test Method(s)

\* Density () 0.947 g/cm³ ASTM D792 ISO 1183

\* Melt Flow Rate (190°C/2.16kg) 150 g/10 min ASTM D1238 IS0 1133

Thermal Nominal Values Test Method(s)

\* Melting Point (DSC) 70°C (158°F) ASTM D3418 ISO 3146

# **Processing Information**

#### General

\* Maximum Processing Temperature 230°C (446°F)

General Processing Information Elvax® resins c

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® 4320 EVA Resin complies with Food and Drug Administration Regulation 21 CFR 177.1330(a) - - Ionomeric resins, 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 (c) 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:

## 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

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# **Europe / Middle East / Africa**

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under a written contract that is consistent with DuPont policy regarding medicalk applications and expressly acknowledges the contemplated use. For further information, please contact your DuPont representative. You may also request a copy of DuPont POLICY Regarding Medical Applications H-50103-3 and DuPont CAUTION Regarding Medical Applications H-50102-3.

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