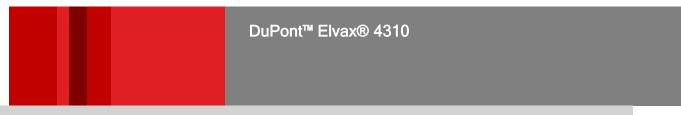
DuPont Packaging & Industrial Polymers





Elvax® resins Product Data Sheet

_				٠.		
112	esc			41	$\boldsymbol{\cap}$	r
L/C	-10	7 1	u	ш	u	

Product Description DuPont™ Elvax® 4310 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 Low molecular weight resin designed to provide improved grease resistance and

adhesion in low-viscosity systems. Permits maximum Elvax® content at a given

viscosity in solvent or hot melt systems.

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 ()
 0.945 g/cm³
 ASTM D792 ISO 1183

 * Melt Flow Rate (190°C/2.16kg)
 500 g/10 min
 ASTM D1238 ISO 1133

 Thermal
 Nominal Values
 Test Method (s)

* Melting Point (DSC) 66°C (151°F) ASTM D3418 ISO 3146

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® 4310 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

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'1. 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

http://elvax.dupont.com

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 CAUTION: Do not use DuPont materials in medical applications involving implantations in the human body or contact with internal body fluids or tissues unless the material has been provided from DuPont under a written contract that is consistent with DuPont policy regarding

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.

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.

Copyright © 2009 DuPont. The DuPont Oval Logo, DuPontTM, The miracles of scienceTM, and trademarks designated with "®" are registered trademarks or trademarks of E.I. du Pont de Nemours and Company or its affiliates. All rights reserved.

This data sheet is effective as of 08/08/2010 04:24:17 PM and supersedes all previous versions.