# **DuPont Packaging & Industrial Polymers**





DuPont™ Elvax® 3129-1

# Elvax® resins Product Data Sheet

		п		-0		
es	$\sim$	п		Ť١	$\boldsymbol{\cap}$	
100	u	ш	w		u	ш

Product Description

DuPont™ Elvax® 3129-1 is an extrudable ethylene-vinyl acetate copolymer resin available in pellet form for use in conventional extrusion equipment designed to process polyethylene resins.

# Restrictions

Material Status

· Commercial: Active

Availability

Globally

# Typical Characteristics

Composition

10 % By Weight Vinyl Acetate comonomer content

Thermal Stabilizer: BHT antioxidant

Applications

This resin is designed to provide a low temperature heat seal to itself or many other materials commonly used in flexible packaging applications. The melt properties of this resin allow it to be processed on blown film equipment over a wide range of film thickness and blow-up ratios. It can also be co-extruded with a variety of other polymers. This resin is typically used as low temperature seal layer in co-extruded films

cal P		

Physical	Nominal Values	Test Method	(s)	
* Density ()	0.93 g/cm <sup>3</sup>	ASTM D792	ISO 1183	
* Melt Flow Rate (190°C/2.16kg)	0.35 g/10 min	ASTM D1238	IS0 1133	
Thermal	Nominal Values	Test Method	Test Method(s)	
* Melting Point (DSC)	100°C (212°F)	ASTM D3418	ISO 3146	
Freezing Point (DSC)	82°C (180°F)	ASTM D3418	ISO 3146	
Vicat Softening Point ()	87°C (189°F)	ASTM D1525	ISO 306	

# **Processing Information**

### General

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

Resin melt temperature should be maintained in the range of 150-175°C (300-350°F) to provide a suitable viscosity and melt strength for blown film extrusion. Higher temperatures may be more appropriate for coextrusion with other grades. Selection of a specific melt temperature will depend on considerations such as desired gauge, height of tower, cooling capacity, extruder hold up time,

winding conditions, and other machine variables.

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® 3129-1 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.

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

CAUTION: Do not use DuPont materials in medical applications

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.

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 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, DuPont<sup>™</sup>, The miracles of science<sup>™</sup>, 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 05:35:03 PM and supersedes all previous versions.