DuPont Packaging & Industrial Polymers

DuPont™ Elvax® 3182

Elvax® resins Product Data Sheet

Description

Product Description	DuPont™ Elvax® 3182 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	28 % 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 or cast and cast coextrusion film equipment over a wide range of line speeds and film thicknesses. It can also be coextruded with a variety of other polymers. This resin is typically used as a low temperature seal layer in coextruded films.

Typical Properties

Physical	Nominal Values	Test Method(s)	
* Density ()	0.95 g/cm³	ASTM D792	ISO 1183
* Melt Flow Rate (190°C/2.16kg)	3 g/10 min	ASTM D1238	IS0 1133

Thermal	Nominal Values	Test Method(s)	
* Melting Point (DSC)	73°C (163°F)	ASTM D3418	ISO 3146
Freezing Point (DSC)	51°C (124°F)	ASTM D3418	ISO 3146
Vicat Softening Point ()	49°C (120°F)	ASTM D1525	ISO 306

Processing Information

General

* Maximum Processing Temperature	230°C (446°F)
General Processing Information	Resin melt temperature should be maintained in the range of 175-215°C (350-420°F) to provide a suitable viscosity and melt strength for coextrusion in either blown film or cast film applications. Higher temperatures may be more appropriate for co-extrusion with other grades. Selection of a specific melt temperature will depend on considerations such as desired gauge, desired optical properties, chill

roll surface and heat transfer characteristics, tension control, 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® 3182 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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