

DuPont™ Elvax® 3176SB

Elvax® resins Product Data Sheet

Description

Product Description DuPont™ Elvax® 3176SB is an extrudable ethylene-vinyl acetate copolymer resin available in pellet form for use in conventional extrusion equipment designed to process polyethylene resins.

Restrictions

- Restrictions**
 - Customer Restricted
- Material Status**
 - Commercial: Active

Typical Characteristics

Composition 18 % By Weight Vinyl Acetate comonomer content
Slip additive, Antiblock additive
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 extrusion coating and cast film equipment over a wide range of line speeds and film thicknesses. Typically, cast film of this grade is adhesive laminated to polyester or other substrates as required by the application.

Typical Properties

Physical	Nominal Values	Test Method(s)	
* Density ()	0.94 g/cm ³	ASTM D792	ISO 1183
* Melt Flow Rate (190°C/2.16kg)	30 g/10 min	ASTM D1238	ISO 1133
Thermal	Nominal Values	Test Method(s)	
* Melting Point (DSC)	84°C (183°F)	ASTM D3418	ISO 3146
Freezing Point (DSC)	61°C (142°F)	ASTM D3418	ISO 3146
Vicat Softening Point ()	54°C (129°F)	ASTM D1525	ISO 306

Processing Information

General

- * Maximum Processing Temperature 235°C (455°F)

General Processing Information Resin melt temperature should be maintained in the range of 175-230°C (350-450°F) to provide a suitable viscosity and melt strength for extrusion coating. Selection of a specific melt temperature will depend on considerations such as coating thickness, substrate type, adhesion desired, line speed, and other machine variables. Priming is usually required to achieve the best adhesion to transparent or

smooth substrates. To obtain the best chill roll release characteristics, matte finish chill rolls are recommended. However, if a gloss chill roll is required, the release additives will help prevent sticking.

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.

FDA Status Information

ELVAX® 3176SB 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, except for articles used for packing or holding food during cooking, 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.

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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:

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This data sheet is effective as of 05/11/2012 07:58:08 AM and supersedes all previous versions.