

DuPont™ Elvax® PV1400

Elvax® resins Product Data Sheet

Description

Product Description DuPont™ Elvax® PV1400 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 32% By Weight Vinyl Acetate

Features Low Gel

Applications This resin is designed for use in the photovoltaic (solar cell) applications. The melt properties of this resin allow it to be processed on blown or 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.

Typical Properties

Physical	Nominal Values	Test Method(s)	
Density ()	0.96 g/cm ³	ASTM D792	ISO 1183
Melt Index (190°C/2.16kg)	43 g/10 min	ASTM D1238	ISO 1133
Thermal	Nominal Values	Test Method(s)	
Melting Point (DSC)	61°C (142°F)	ASTM D3418	ISO 3146
Freezing Point (DSC)	37°C (99°F)	ASTM D3418	
Vicat Softening Point ()	40°C (104°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® PV1400 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

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applications because performance properties will vary from lot to lot and with processing conditions. It is given and accepted at user's risk and confirmation of its validity and suitability in particular cases should be obtained independently. The DuPont Company makes no guarantees of results and assumes no obligations or liability in connection with its advice.

Statement, H-50102.

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