DuPont Performance Materials



DuPont ™ Elvax® 3176CW-3

Elvax® resins Product Data Sheet

Description							
Product Description		DuPont™ Elvax® 3176CW-3 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	Commercial: Active					
Typical Characteristics							
Composition	Slip additive Chill Roll Release additive	·					
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 Met	hod(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 (183.2 °F)	ASTM D3418	ISO 3146				
Freezing Point (DSC)	61°C (141.8°F)	ASTM D3418	ISO 3146				
Vicat Softening Point ()	54°C (129.2°F)	ASTM D1525	ISO 306				
Processing Information							
*Maximum Processing Temperature	235°C (455°F)	235 °C (455 °F)					
General Processing Information	suitable viscosity and melt st depend on considerations su other machine variables. Pri smooth substrates. To obtai	Resin melt temperature should be maintained in the range of 185-235°C (365-455°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.						

FDA Status Information

ELVAX® 3176CW-3 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.

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.

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

Regulatory Information

For information on regulatory compliance outside of the U.S.A., consult your local DuPont representative.

Safety & Handling

THE IMPORTANCE OF PROPER HANDLING & STORAGE:

Maintaining proper handling and storage conditions for DuPont™ Elvax® resins is very important to ensure overall product quality and keep the resin in a free-flowing state. If the Elvax® resin is subjected to sunlight, rain or excessive temperatures, then the resin may not process properly or achieve the desired characteristics in the final product.

It is crucial for Elvax® resins to be kept under proper storage and handling conditions because improper storage and handling may cause the resin to "block" (massing of pellets into large clumps that can hinder the ease of material transfer) or lose the ability to flow freely.

Please refer to the Elvax® Handling Guide for additional information.

For additional 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 Performance Materials representative.

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

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