Technical Information

ELVAX™ 3135SB

Ethylene Vinyl Acetate Copolymer

Description

Product Description

ELVAX™ 3135SB 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

Typical Characteristics

Composition

12% 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 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.

Typical Properties

Physical	Nominal Values		Test Method(s)	
*Density ( )	0.93 g/cm³	ASTM D792		ISO 1183
*Melt Flow Rate (190°C/2.16kg)	0.35 g/10 min	ASTM D1238		ISO 1133
Thermal	**Nominal Values**		**Test Method(s)**	
*Melting Point (DSC)	97 °C (206.6 °F)	ASTM D3418		ISO 3146
Freezing Point (DSC)	77 °C (170.6 °F)	ASTM D3418		ISO 3146
Vicat Softening Point ( )	81 °C (177.8 °F)	ASTM D1525		ISO 306

Processing Information

***Maximum Processing Temperature**

235 °C (455 °F)

General Processing Information

Resin melt temperature should be maintained in the range of 160-185°C (320-365°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 455°F (235°C), ethylene vinyl acetate (EVA) resins may thermally degrade and release corrosive by-products.

FDA Status Information

ELVAX™ 3135SB 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, for use in articles that contact food except for articles used for packing or holding food during cooking.

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