

DuPont™ Elvaloy® AC 3427

Elvaloy® AC resins Product Data Sheet

Description

Product Description Elvaloy® AC 3427 is a copolymer of ethylene and butyl acrylate. It is available in pellet form for use in conventional extrusion equipment designed to process polyethylene type resins.

Restrictions

Material Status • Commercial: Active

Typical Characteristics

Composition 27% By Weight Butyl Acrylate

Typical Properties

Physical	Nominal Values	Test Method(s)	
Density ()	0.926 g/cm ³	ASTM D792	ISO 1183
Melt Flow Rate (190°C/2.16kg)	4 g/10 min	ASTM D1238	ISO 1133
Thermal	Nominal Values	Test Method(s)	
Melting Point (DSC)	94°C (201°F)	ASTM D3418	ISO 3146
Vicat Softening Point ()	45°C (113°F)	ASTM D1525	ISO 306

Processing Information

General

Maximum Processing Temperature 310°C (590°F)
General Processing Information Elvaloy® AC 3427 is normally processed at melt temperatures ranging from 160°C - 285°C (320°F - 545°F) in blown film or cast film equipment. A typical blown film extruder temperature profile is given below. Actual processing temperatures will be determined by either the specific equipment or one of the other polymers in a coextrusion. Elvaloy® AC 3427 can also be used in cast extrusions and coextrusions. It is easily processed on standard equipment used for low density polyethylene.

Blown Film Processing

	Nominal Values
Blown Film Processing Information	A suggested extrusion set temperature profile is shown below.
Feed Zone	135°C (275°F)
Second Zone	160°C (320°F)
Third Zone	185°C (365°F)
Fourth Zone	185°C (365°F)
Fifth Zone	185°C (365°F)

Adapter Zone	185°C (365°F)
Die Zone	185°C (365°F)

Cast Film / Sheet Processing	Nominal Values
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Cast Film Processing Information	A suggested extrusion set temperature profile is shown below.
Feed Zone	160°C (320°F)
Second Zone	210°C (410°F)
Third Zone	235°C (455°F)
Fourth Zone	235°C (455°F)
Fifth Zone	235°C (455°F)
Adapter Zone	235°C (455°F)
Die Zone	235°C (455°F)

FDA Status Information

Elvaloy® AC 3427 resin complies with the U.S. Food and Drug Administration regulation 21CFR175.105; Adhesives, for use as a component of articles intended for use in contact with food. These resins must be separated from contact with food by a suitable functional barrier, and the quantity of adhesive which contacts fatty and aqueous foods shall not exceed the trace amount at seams and edges. This resin also complies with U.S. Food and Drug Administration regulation 21CFR176.180; Components of paper and paperboard in contact with dry food, for use as a component of the uncoated or coated food-contact surface of paper and paperboard in contact with dry food (food type VIII, identified in 21CFR176.170(c), Table 1).

Regulatory Information

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

Safety & Handling

Elvaloy® AC resins as supplied by DuPont are not considered hazardous materials. As with any hot material, care should be taken to protect the hands and other exposed parts of the body when handling molten polymer. At recommended processing temperatures, small amounts of fumes may evolve from the resins. When resins are overheated, more extensive decomposition may occur. Adequate ventilation should be provided to remove fumes from the work area. Disposal of scrap presents no special problems and can be by landfill or incineration in a properly operated incinerator. Disposal should comply with local, state, and federal regulations. Resin pellets can be a slipping hazard. Loose pellets should be swept up promptly to prevent falls. For more detailed information on the safe handling and disposal of DuPont resins, a Material Safety Data Sheet can be obtained from the DuPont Packaging and Industrial Polymers website or by contacting your sales 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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