

DuPont™ Elvaloy® AC 1218

Elvaloy® AC resins Product Data Sheet

Description

Product Description Elvaloy® AC 1218 is a copolymer of ethylene and methyl 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 18% By Weight Methyl Acrylate

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)	2 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 ()	60°C (140°F)	ASTM D1525	ISO 306

Processing Information

General

Maximum Processing Temperature 310°C (590°F)
 General Processing Information Elvaloy® AC 1218 is normally processed at melt temperatures ranging from 160°C - 235°C (320°F - 455°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 1218 can also be used in cast extrusions and coextrusions. It is easily processed on standard equipment used for low density polyethylene.

Blown Film Processing

Blown Film Processing Information	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)

FDA Status Information

Elvaloy® AC 1218 resin complies with the U. S. Food and Drug Administration regulation 21 CFR 177.1340, Ethylene-methyl acrylate copolymer resins, for use in contact with all types of food, subject to meeting the migration limits specified in paragraph (b).

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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Regarding Medical Applications H-50103-3 and DuPont CAUTION Regarding Medical Applications H-50102-3.

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