

DuPont™ Elvaloy® AC 1820

Elvaloy® AC resins Product Data Sheet

Description

Product Description Elvaloy® AC 1820 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 20 % By Weight Methyl Acrylate comonomer content

Typical Properties

Physical	Nominal Values	Test Method(s)	
* Density ()	0.942 g/cm ³	ASTM D792	ISO 1183
* Melt Flow Rate (190°C/2.16kg)	8 g/10 min	ASTM D1238	ISO 1133
Thermal	Nominal Values	Test Method(s)	
* Melting Point (DSC)	92°C (198°F)	ASTM D3418	ISO 3146
Vicat Softening Point ()	54°C (129°F)	ASTM D1525	ISO 306

Processing Information

General

* Maximum Processing Temperature 310°C (590°F)

General Processing Information Elvaloy® AC 1820 is normally processed at melt temperatures ranging from 235°C - 310°C (455°F - 590°F) in extrusion coating or cast film equipment. A typical extrusion coating 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 1820 can also be used in cast extrusions and coextrusions. It is easily processed on standard equipment used for low density polyethylene.

Extrusion Coating/Lamination Processing

Nominal Values

Extrusion Coating / Lamination Processing A suggested extrusion set temperature profile

Feed Zone 185°C (365°F)

Second Zone 235°C (455°F)

Third Zone	260°C (500°F)
Fourth Zone	285°C (545°F)
Fifth Zone	285°C (545°F)
Adapter Zone	285°C (545°F)
Die Zone	285°C (545°F)

FDA Status Information

ELVALOY® AC 1820 Acrylate Copolymer Resin complies with Food and Drug Administration Regulation 21 CFR 177.1340(a) - - Ethylene-methyl acrylate copolymer resins, 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) of the Regulation.

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., consult your local DuPont representative.

Safety & Handling

For 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 Packaging and Industrial Polymers 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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