

DuPont™ Elvaloy® AC 1105S

Elvaloy® AC resins Product Data Sheet

Description

Product Description Elvaloy® AC 1105S 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 4.3 % By Weight Methyl Acrylate comonomer content
 Features Contains Slip, Antiblock, and Antioxidant additives.

Typical Properties

Physical	Nominal Values	Test Method(s)	
* Density ()	0.92 g/cm ³	ASTM D792	ISO 1183
* Melt Flow Rate (190°C/2.16kg)	1.1 g/10 min	ASTM D1238	ISO 1133
Thermal	Nominal Values	Test Method(s)	
* Melting Point (DSC)	108°C (226°F)	ASTM D3418	ISO 3146
Vicat Softening Point ()	85°C (185°F)	ASTM D1525	ISO 306

Processing Information

General

* Maximum Processing Temperature 310°C (590°F)
 General Processing Information Elvaloy® AC 1105S 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 1105S 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 1105S 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

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