

Technical Information

ELVALOY™ AC 1209
Acrylate Copolymer
Description

Product Description ELVALOY™ AC 1209 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 9% By Weight Methyl Acrylate comonomer content

Typical Properties

Physical	Nominal Values		Test Method(s)
*Density ()	0.927 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)	101 °C (213.8 °F)	ASTM D3418	ISO 3146
Vicat Softening Point ()	70 °C (158 °F)	ASTM D1525	ISO 306

Processing Information

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

General Processing Information ELVALOY™ AC 1209 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 1209 can also be used in cast extrusions and coextrusions. It is easily processed on standard equipment used for low density polyethylene.

Blown Film Processing Processing Information	Nominal Values
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 1209 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.

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Regulatory Information

For information on regulatory compliance outside of the U.S.A. consult your local Dow 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 Dow representative.

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