



Dow Packaging & Specialty Plastics

Product Data Sheet

ELVALOY™ AC 1913

Acrylate Copolymer

General Information

Product Description ELVALOY™ AC 1913 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.

Status

Material Status Commercial: Active

Typical Characteristics

Composition 13% By Weight Methyl Acrylate comonomer content

Typical Properties

Physical	Nominal Values	Test Method(s)	
*Density ()	0.935 g/cm ³	ASTM D792	ISO 1183
*Melt Flow Index (190°C/2.16kg)	9 g/10 min	ASTM D1238	ISO 1133
Thermal	Nominal Values	Test Method(s)	
*Melting Point (DSC)	99 °C (210.2 °F)	ASTM D3418	ISO 3146
Freezing Point (DSC)	82 °C (179.6 °F)		
Vicat Softening Point ()	61 °C (141.8 °F)	ASTM D1525	ISO 306

Processing Information

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

General Processing Information ELVALOY™ AC 1913 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 1913 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 Information	Nominal Values
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 1913 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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<https://www.dow.com/en-us/support/product-safety.html>

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http://www.dow.com/products_services

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P&SP Disclaimer

Additional Information

To contact Dow via Toll-Free or Local Toll phone numbers in specific countries, please see the following webpage:
<https://www.dow.com/en-us/support/contact-representative.html>

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