



Dow Packaging & Specialty Plastics

Product Data Sheet

ELVALOY™ AC 2618

Acrylate Copolymer

General Information

Product Description ELVALOY™ AC 2618 is a copolymer of ethylene and ethyl 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 18% By Weight Ethyl Acrylate comonomer content

Typical Properties

Physical	Nominal Values	Test Method(s)	
*Density ()	0.93 g/cm ³	ASTM D792	ISO 1183
*Melt Flow Index (190°C/2.16kg)	6 g/10 min	ASTM D1238	ISO 1133
Thermal	Nominal Values	Test Method(s)	
*Melting Point(DSC)	95 °C (203 °F)	ASTM D3418	ISO 3146
Vicat Softening Point ()	56 °C (132.8 °F)	ASTM D1525	ISO 306

Processing Information

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

General Processing Information ELVALOY™ AC 2618 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 2618 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 2618 Acrylate Copolymer Resin complies with Food and Drug Administration Regulation 21 CFR 177.1320(a) - - Ethylene-ethyl acrylate copolymer resins, subject to the limitations and requirements therein. This Regulation describes polymers that may be used in contact with food, except for holding food during cooking, subject to the blend and finished food-contact article meeting the extractive limitations, as shown in paragraph (c)(2) of the Regulation. This resin must be blended with polyethylene or with one or more olefin polymers complying with Food and Drug Administration Regulation 21 CFR 177.1520, or used in a coating complying with 21 CFR 175.300 or 21 CFR 176.170 in such proportions that the ethyl acrylate content of the blend or finished coating does not exceed 8 percent by weight, in accordance with paragraph (b) of 21 CFR 177.1320.

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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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