



Dow Packaging & Specialty Plastics

Product Data Sheet

ELVALOY™ AC 3717

Acrylate Copolymer

General Information

Product Description ELVALOY™ AC 3717 is a copolymer of ethylene and butyl 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 17% By Weight Butyl Acrylate comonomer content

Typical Properties

Physical	Nominal Values	Test Method(s)	
*Density ()	0.924 g/cm ³	ASTM D792	ISO 1183
*Melt Flow Index (190°C/2.16kg)	7 g/10 min	ASTM D1238	ISO 1133
Thermal	Nominal Values	Test Method(s)	
*Melting Point(DSC)	96 °C (204.8 °F)	ASTM D3418	ISO 3146
Vicat Softening Point ()	55 °C (131 °F)	ASTM D1525	ISO 306

Processing Information

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

General Processing Information ELVALOY™ AC 3717 is normally processed at melt temperatures ranging from 160°C - 285°C (320°F - 545°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 3717 can also be used in cast extrusions and coextrusions. It is easily processed on standard equipment used for low density polyethylene.

Cast Film / Sheet Nominal Values

Processing Information A suggested extrusion set temperature profile is shown below.

Feed Zone 160 °C (320 °F)

Second Zone 210 °C (410 °F)

Third Zone 235 °C (455 °F)

Fourth Zone 235 °C (455 °F)

Fifth Zone 235 °C (455 °F)

Adapter Zone 235 °C (455 °F)

Die Zone 235 °C (455 °F)

Extrusion Coating/Lamination Nominal Values

Processing Information A suggested extrusion set temperature profile is shown below.

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 3717 Acrylate Copolymer Resin complies with Food and Drug Administration Regulation 21 CFR 175.105 - - Adhesives. This Regulation describes adhesives that may be used as components of articles intended for use in packaging, transporting, or holding food, subject to the limitations and requirements therein.

ELVALOY™ AC 3717 Acrylate Copolymer Resin complies with Food and Drug Administration Regulation 21 CFR 176.180 - - Components of paper and paperboard in contact with dry food, subject to the limitations and requirements therein. This Regulation describes substances that may be used as components of the uncoated and coated food-contact surface of paper and paperboard in contact with dry food (Food Type VIII, identified in 21 CFR 176.170(c), Table 1).

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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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