



Dow Packaging & Specialty Plastics

Product Data Sheet

ELVALOY™ AC 3217

Acrylate Copolymer

General Information

Product Description ELVALOY™ AC 3217 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

Features Contains Slip, Antiblock, and Antioxidant additives.

Typical Properties

Physical	Nominal Values	Test Method(s)	
*Density ()	0.926 g/cm ³	ASTM D792	ISO 1183
*Melt Flow Index (190°C/2.16kg)	1.8 g/10 min	ASTM D1238	ISO 1133
Thermal	Nominal Values	Test Method(s)	
*Melting Point (Major melt peak)	92 °C (197.6 °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 3217 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 3217 can also be used in cast extrusions and coextrusions. It is easily processed on standard equipment used for low density polyethylene.

Blown Film Nominal Values

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 3217 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.

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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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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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