



ELVALOY™ AC 2116

Acrylate Copolymer

Description			
Product Description	ELVALOY™ AC 2116 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.		
Restrictions			
Material Status	Commercial: Active		
Typical Characteristics			
Composition	16% 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 Rate (190°C/2.16kg)	1 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 ()	60 °C (140 °F)	ASTM D1525	ISO 306
Processing Information			
*Maximum Processing Temperature	310 °C (590 °F)		
General Processing Information	ELVALOY™ AC 2116 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 2116 can also be used in cast extrusions and coextrusions. It is easily processed on standard equipment used for low density polyethylene.		
Blown Film Processing	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 2116 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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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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- b. use in cardiac prosthetic devices regardless of the length of time involved (“cardiac prosthetic devices” include, but are not limited to, pacemaker leads and devices, artificial hearts, heart valves, intra-aortic balloons and control systems, and ventricular bypass-assisted devices);
- c. use as a critical component in medical devices that support or sustain human life; or
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Published August 2019

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Version: 114.0

Last modified at 8/6/2019 5:57 AM