



ELVALOY™ AC 1125

Acrylate Copolymer

Description			
Product Description	ELVALOY™ AC 1125 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.		
Restrictions			
Material Status	Commercial: Active		
Typical Characteristics			
Composition	25% By Weight Methyl Acrylate comonomer content		
Typical Properties			
Physical	Nominal Values	Test Method(s)	
*Density ()	0.944 g/cm ³	ASTM D792	ISO 1183
*Melt Flow Rate (190°C/2.16kg)	0.5 g/10 min	ASTM D1238	ISO 1133
Thermal	Nominal Values	Test Method(s)	
*Melting Point (DSC)	90 °C (194 °F)	ASTM D3418	ISO 3146
Vicat Softening Point ()	48 °C (118.4 °F)	ASTM D1525	ISO 306
Processing Information			
*Maximum Processing Temperature	310 °C (590 °F)		
General Processing Information	ELVALOY™ AC 1125 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 1125 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™ 1125AC 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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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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