



ELVALOY™ AC 1224

Acrylate Copolymer

Description			
Product Description	ELVALOY™ AC 1224 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	24% 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)	2 g/10 min	ASTM D1238	ISO 1133
Thermal	Nominal Values	Test Method(s)	
*Melting Point (DSC)	91 °C (195.8 °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 1224 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 1224 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 1224 Acrylate Copolymer Resin complies with Food and Drug Administration Regulation 21 CFR 177.1340(a) - - Ethylene-methyl acrylate copolymer resins, subject to the limitations and requirements therein. This Regulation describes polymers that may be used in contact with food, subject to the finished food-contact article meeting the extractive limitations under the intended conditions of use, as shown in paragraph (b) of the Regulation. The information and certifications provided herein are based on data we believe to be reliable, to the best of our knowledge. The information and certifications apply only to the specific material designated herein as sold by Dow and do not apply to use in any process or in combination with any other material. They are provided at the request of and without charge to our customers. Accordingly, Dow cannot guarantee or warrant such certifications or information and assumes no liability for their use.		

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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