



ELVALOY™ AC 12024S

Acrylate Copolymer

Description			
Product Description	ELVALOY™ AC 12024S 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 Contains Antioxidant additives.		
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)	20 g/10 min	ASTM D1238	ISO 1133
Thermal	Nominal Values	Test Method(s)	
*Melting Point (DSC)	88 °C (190.4 °F)	ASTM D3418	ISO 3146
Processing Information			
*Maximum Processing Temperature	310 °C (590 °F)		
General Processing Information	ELVALOY™ AC 12024S is normally processed at melt temperatures ranging from 210°C - 260°C (410°F - 500°F) in extrusion coating or cast film equipment. A 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 12024S can also be used in cast extrusions and coextrusions. It is easily processed on standard equipment used for low density polyethylene.		
Extrusion Coating/Lamination Processing	Nominal Values		
Processing Information	A suggested extrusion set temperature profile		
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)		
FDA Status Information	ELVALOY™ AC 12024S 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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Additional Information

North America

U.S. & Canada: 1-800-441-4369
1-989-832-1426
Mexico: +1-800-441-4369

Europe/Middle East

All Countries +31-11567-2626
+800-3694-6367
Italy: +800-783-825

Latin America

Argentina: +54-11-4319-0100
Brazil: +55-11-5188-9000
Colombia: +57-1-219-6000
Mexico: +52-55-5201-4700

South Africa: +800 98 5078

Asia Pacific: +800 7776 7776

SOUTH AFRICA TOLL-FREE 0800-95-5070

ASIA PACIFIC

TOLL-FREE 0011-110-1110
+60-3-7958-5392

<http://www.dow.com>

Published August 2019

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Version: 154.0

Last modified at 8/6/2019 5:58 AM