



Dow Packaging & Specialty Plastics

Product Data Sheet

ELVALOY™ AC 12024S

Acrylate Copolymer

General Information

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.

Status

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 Index (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 Information	Nominal Values
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.

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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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<https://www.dow.com/en-us/support/product-safety.html>

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http://www.dow.com/products_services

Revision Date: 26-February-2021

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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Updated February 2021

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Version: 154.0

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