



## 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<br>Contains Antioxidant additives.  |                |          |
| Typical Properties                      |   |                |          |
| Physical                                | Nominal Values  | Test Method(s) |          |
| *Density ( )                            | 0.944 g/cm <sup>3</sup>   | 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.<br><br>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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