DuPont™ Elvaloy® AC 1125

Elvaloy® AC resins Product Data Sheet

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
- Density ()
  Nominal Values: 0.944 g/cm³
  Test Method(s): ASTM D792
- Melt Flow Rate (190°C/2.16kg)
  Nominal Values: 0.5 g/10 min
  Test Method(s): ASTM D1238

Thermal
- Melting Point (DSC)
  Nominal Values: 90°C (194°F)
  Test Method(s): ASTM D3418
- Vicat Softening Point
  Nominal Values: 48°C (118°F)
  Test Method(s): ASTM D1525

Processing Information

General
- Maximum Processing Temperature
  Nominal Values: 310°C (590°F)

Blown Film Processing
- Blown Film Processing Information
  Nominal Values
  Feed Zone: 135°C (275°F)
  Second Zone: 160°C (320°F)
  Third Zone: 185°C (365°F)
  Fourth Zone: 185°C (365°F)

A suggested extrusion set temperature profile is shown below.

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.
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.

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 DuPont 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, DuPont 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., consult your local DuPont 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 DuPont Packaging and Industrial Polymers representative.

**Read and Understand the Material Safety Data Sheet (MSDS) before using this product**

**Regional Centres**  
DuPont operates in more than 70 countries. For help finding a local representative, please contact one of the following regional customer contact centers:

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This data sheet is effective as of 08/08/2010 12:22:07 PM and supersedes all previous versions.