DuPont Packaging & Industrial Polymers

DuPont™ Elvaloy® AC 1609

Elvaloy® AC resins Product Data Sheet

Description

Product Description
Elvaloy® AC 1609 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
9 % By Weight Methyl Acrylate comonomer content

Typical Properties

Physical
- Density ()
  Nominal Values
  0.93 g/cm³
  Test Method(s)
  ASTM D792
  ISO 1183
- Melt Flow Rate (190°C/2.16kg)
  Nominal Values
  6 g/10 min
  Test Method(s)
  ASTM D1238
  ISO 1133

Thermal
- Melting Point (DSC)
  Nominal Values
  101°C (214°F)
  Test Method(s)
  ASTM D3418
  ISO 3146
- Vicat Softening Point ()
  Nominal Values
  70°C (158°F)
  Test Method(s)
  ASTM D1525
  ISO 306

Processing Information

General
- Maximum Processing Temperature
  Nominal Values
  310°C (590°F)
  Test Method(s)
Elvaloy® AC 1609 is normally processed at melt temperatures ranging from 235°C - 310°C (455°F - 590°F) in extrusion coating or cast film equipment. A typical 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 1609 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
Extrusion Coating / Lamination Processing
A suggested extrusion set temperature profile
Feed Zone
185°C (365°F)
Second Zone
235°C (455°F)
Third Zone 260°C (500°F)
Fourth Zone 285°C (545°F)
Fifth Zone 285°C (545°F)
Adapter Zone 285°C (545°F)
Die Zone 285°C (545°F)

FDA Status Information
ELVALOY® AC 1609 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 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:

Americas
DuPont Company
Chestnut Run Plaza – Bldg. 730
974 Centre Road
Wilmington, Delaware
19805 U.S.A.
Toll-Free (USA): 1-800-628-6208
Telephone: 1-302-774-1000
Fax: 1-302-355-4013

DuPont do Brasil, S.A.
Alameda Itapecuru, 506
06454-080 Barueri, SP Brasil
Telephone: +55 11 4166 8000
Fax: +55 11 4166 8736

Asia Pacific
DuPont China Holding Co., Ltd.
Shanghai Branch
399 Keyuan Road, Bldg. 11
Zhangjiang Hi-Tech Park
Pudong New District, Shanghai
P.R. China (Postcode: 201203)
Telephone +86 21 3862 2888
Fax +86-21-3862-2889

Europe / Middle East / Africa
DuPont de Nemours Int’l. S.A.
2,Chemin du Pavillon Box 50
CH-1218 Le Grand Saconnex
Geneva, Switzerland
Telephone +41 22 717 51 11
Fax +41 22 717 55 00

http://elvaloy.dupont.com
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