Elvaloy® AC resins Product Data Sheet

Description

Elvaloy® AC 2618 is a copolymer of ethylene and ethyl 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

18 % By Weight Ethyl Acrylate comonomer content

Typical Properties

Physical

- Density (g/cm³)
  Nominal Values: 0.93
  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: 95°C (203°F)
  Test Method(s): ASTM D3418, ISO 3146

- Vicat Softening Point
  Nominal Values: 56°C (133°F)
  Test Method(s): ASTM D1525, ISO 306

Processing Information

General

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

Elvaloy® AC 2618 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 2618 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

- Extrusion Coating / Lamination Processing
  Nominal Values: A suggested extrusion set temperature profile

- Feed Zone
  Nominal Values: 185°C (365°F)

- Second Zone
  Nominal Values: 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 2618 Acrylate Copolymer Resin complies with Food and Drug Administration Regulation 21 CFR 177.1320(a) - Ethylene-ethyl acrylate copolymer resins; subject to the limitations and requirements therein. This Regulation describes polymers that may be used in contact with food, except for holding food during cooking, subject to the blend and finished food-contact article meeting the extractive limitations, as shown in paragraph (c)(2) of the Regulation. This resin must be blended with polyethylene or with one or more olefin polymers complying with Food and Drug Administration Regulation 21 CFR 177.1520, or used in a coating complying with 21 CFR 175.300 or 21 CFR 176.170 in such proportions that the ethyl acrylate content of the blend or finished coating does not exceed 8 percent by weight, in accordance with paragraph (b) of 21 CFR 177.1320.

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

**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
The data listed here fall within the normal range of properties, but they should not be used to establish specification limits nor used alone as the basis of design. The DuPont Company assumes no obligations or liability for any advice furnished or for any results obtained with respect to this information. All such advice is given and accepted at the buyer's risk. The disclosure of information herein is not a licence to operate under, or a recommendation to infringe, any patent of DuPont or others. Since DuPont cannot anticipate all variations in actual end-use conditions, DuPont makes no warranties and assumes no liability in connection with any use of this information.

CAUTION: Do not use DuPont materials in medical applications involving implantations in the human body or contact with internal body fluids or tissues unless the material has been provided from DuPont under a written contract that is consistent with DuPont policy regarding medical applications and expressly acknowledges the contemplated use. For further information, please contact your DuPont representative. You may also request a copy of DuPont POLICY Regarding Medical Applications H-50103-3 and DuPont CAUTION Regarding Medical Applications H-50102-3.

Copyright © 2009 DuPont. The DuPont Oval Logo, DuPont™, The miracles of science™, and trademarks designated with “®” are registered trademarks or trademarks of E.I. du Pont de Nemours and Company or its affiliates. All rights reserved.

This data sheet is effective as of 08/08/2010 12:40:13 PM and supersedes all previous versions.