

DuPont™ Elvaloy® HP441

Elvaloy® resins Product Data Sheet

Description

Product Description DuPont™ Elvaloy® HP441 is a ethylene terpolymer, which is most commonly used as a modifier for a variety of other polymers.

E/nBA/CO = ethylene/n-butyl acrylate/carbon monoxide

Typical Characteristics

Characteristics / Benefits Glass Transition Temperature:~ (-54)C via ASTM D5418 loss modulus peak at 1 hz
 Tensile Elongation @ Break:~~~~~ 1213% via ASTM D638 / ISO 527-2
 Tensile Strength @ Break: ~~~~~ 3.4 MPa (493 psi) via ASTM D638 / ISO 527-2
 Durometer Hardness (Shore A):~~~~ 59 via ASTM 2240 / ISO 868

Applications Non-migratory plasticizer, and/or flex modifier for a variety of other polymers.

Typical Properties

Physical	Nominal Values	Test Method(s)	
Density ()	0.98 g/cm ³	ASTM D792	ISO 1183
Melt Flow Rate (190°C/2.16kg)	8 g/10 min	ASTM D1238	ISO 1133
Thermal	Nominal Values	Test Method(s)	
Melting Point (DSC)	59°C (138°F)	ASTM D3418	ISO 3146

Processing Information

General

Maximum Processing Temperature 235°C (455°F)

Regulatory Information For information on regulatory compliance within or outside of the U.S., consult your local DuPont representative.

Safety & Handling As with any hot material, care should be taken to protect the hands and other exposed parts of the body when working with molten polymer.

At temperatures above 250C (482F), these resins can evolve low concentrations of fumes. When resins are overheated, more extensive decomposition may occur. Because fumes produced during exposure to high temperatures may be combustible, exposure of overheated resin to atmospheric oxygen should be avoided if possible. Adequate local ventilation should be provided to remove the fumes from the work area.

Disposal of scrap material presents no special problems, and may be accomplished by landfill or by incineration by a properly operated incinerator. Disposal should

comply with local, state, and federal regulations. Resin pellets can be a slipping hazard. Loose pellets should be swept up promptly to prevent falls.

For more detailed information on the safe handling and disposal of these resins, a Product Safety Bulletin and OSHA Material Safety Data Sheets can be obtained from the DuPont Packaging & Industrial Polymer regional office serving you.

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, BMP26-2363
Lancaster Pike & Route 141
Wilmington, DE 19805 U.S.A.
Telephone +1 302-774-1161
Toll-free (USA) 800-628-6208
Fax +1 302-999-4399

DuPont do Brasil, S.A.
Alameda Itapecuru, 506
06454-080 Barueri, SP Brasil
Telephone +55 11 4166 8122
Fax +55 11 4166 8720

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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This data sheet is effective as of 08/03/2009 01:21:15 PM and supersedes all previous versions.