



Dow Packaging & Specialty Plastics

Product Data Sheet

ELVALOY™ 4170P (for Asphalt)

Copolymer

General Information

Product Description	ELVALOY™ 4170P is a Reactive Elastomeric Terpolymer (RET) that can be used to modify the properties of asphalt binder used in paving. ELVALOY™ 4170P is the most chemically reactive of the terpolymers manufactured by Dow for use with asphalt. It is effective when used with a wide range of asphalts, at mix levels as low as 0.5%, and is rarely used over 2.5% Resulting polymer modified asphalt (PMA) is very stable, and can be stored for extended periods. ELVALOY™ 4170P is a low volatile version of ELVALOY™ 4170.
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Status

Material Status	Developmental: Active
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Typical Characteristics

Features	Bulk Density 0.58 g/cubic cm
Characteristics / Benefits	Most reactive grade for asphalt (bitumen) modification.
Applications	Asphalt (Bitumen) Modification

Typical Properties

Physical	Nominal Values	Test Method(s)	
*Density ()	0.94 g/cm ³	ASTM D792	ISO 1183
*Melt Flow Index (190°C/2.16kg)	8 g/10 min	ASTM D1238	ISO 1133
Thermal	Nominal Values	Test Method(s)	
*Melting Point (DSC)	72 °C (161.6 °F)	ASTM D3417	ISO 3146

Processing Information

*Maximum Processing Temperature	280 °C (536 °F)
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FDA Status Information	For information on regulatory compliance within the U.S.A., consult your local Dow representative.
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Regulatory Information	For information on regulatory compliance outside of the U.S.A., consult your local Dow representative.
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Safety & Handling	For information on appropriate Handling & Storage of this polymeric resin, please refer to the material Safety Data Sheet.
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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.

Product Stewardship

Dow has a fundamental concern for all who make, distribute, and use its products, and for the environment in which we live. This concern is the basis for our product stewardship philosophy by which we assess the safety, health, and environmental information on our products and then take appropriate steps to protect employee and public health and our environment. The success of our product stewardship program rests with each and every individual involved with Dow products - from the initial concept and research, to manufacture, use, sale, disposal, and recycle of each product.

Customer Notice

Dow strongly encourages its customers to review both their manufacturing processes and their applications of Dow products from the standpoint of human health and environmental quality to ensure that Dow products are not used in ways for which they are not intended or tested. Dow personnel are available to answer your questions and to provide reasonable technical support. Dow product literature, including safety data sheets, should be consulted prior to use of Dow products. Current safety data sheets are available from Dow.

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<https://www.dow.com/en-us/support/product-safety.html>

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Harmful Applications Policy

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For additional information, not covered by the content of this document, contact us via our web site

http://www.dow.com/products_services

Revision Date: 26-February-2021
P&SP Disclaimer

Additional Information

To contact Dow via Toll-Free or Local Toll phone numbers in specific countries, please see the following webpage:
<https://www.dow.com/en-us/support/contact-representative.html>

<http://www.dow.com>

Updated February 2021

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Version: 98.0
Last modified at 8/31/2019 3:52 PM