



ELVALOY™ 4170 (for Asphalt)

Copolymer

Description

Product Description ELVALOY™ 4170 is a Reactive Elastomeric Terpolymer (RET) that can be used to modify the properties of asphalt binder used in paving.

ELVALOY™ 4170 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.

Restrictions

Material Status Commercial: Active

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 Rate (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)

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 Dow representative.

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- b. use in cardiac prosthetic devices regardless of the length of time involved ("cardiac prosthetic devices" include, but are not limited to, pacemaker leads and devices, artificial hearts, heart valves, intra-aortic balloons and control systems, and ventricular bypass-assisted devices);
- c. use as a critical component in medical devices that support or sustain human life; or
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