



ELVALOY™ 5170 (for Asphalt)

Copolymer

Description

Product Description

ELVALOY™ 5170 is a Reactive Elastomeric Terpolymer (RET) that can be used to modify the properties of asphalt binder used in paving.

ELVALOY™ 5170 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.

Resulting polymer modified asphalt (PMA) is very stable, and can be stored for extended periods.

Restrictions

Material Status

Developmental: Active

Typical Characteristics

Uses

Asphalt Modification

Features

ELVALOY™ 5170 copolymer delivers high temperature SHRP properties and low temperature flexibility that is locked into asphalt binders. Once mixed the ELVALOY™ reacts and never separates or segregates. Properties remain similar top, middle, and bottom no matter how long the binder is stored.

Tensile Strength ----- 2177 psi ----- ASTM D638
Elongation @ Break ----- 719% ----- ASTM D638

Applications

Asphalt / bitumen modification

Typical Properties

Physical	Nominal Values		Test Method(s)
*Density ()	0.95 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)	82 °C (179.6 °F)	ASTM D3418	ISO 3146
Freezing Point (DSC)	62 °C (143.6 °F)	ASTM D3418	ISO 3146

Processing Information

*Maximum Processing Temperature 220 °C (428 °F)

FDA Status Information

ELVALOY™ 5170 currently does not have any US-FDA clearance for direct or indirect contact with food materials.

Regulatory Information

For information on regulatory compliance outside of the U.S.A., consult your local Dow 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 Dow representative.

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