

DuPont™ Elvaloy® 5170

Elvaloy® RET resins Product Data Sheet

Description

Product Description

DuPont™ 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 DuPont 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.

Property	Typical Value	Units	ASTM Test Method
Tensile Strength	2177	PSI	D638
Elongation at Break	719	%	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 (180°F)	ASTM D3418	ISO 3146
Freezing Point (DSC)	62°C (144°F)	ASTM D3418	ISO 3146

Processing Information

General

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

FDA Status Information

Elvaloy® 5170 currently does not have any US-FDA clearance for direct or in-direct contact with food materials.

Regulatory Information

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

Safety & Handling

A Product Safety Bulletin, Material Safety Data Sheet, and more detailed information on compounding and processing Elvaloy® resins 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:

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