Dow Packaging & Specialty Plastics

Product Data Sheet

ELVALOY™ 4170 (for Asphalt)

Copolymer

General Information

General Information

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.

Status

Material Status	Commercial: Active

Typical Characteristics

Features	Bulk Density 0.58 g/cubic cm
Characteristics I 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	•so 1183
*Melt Flow Index(190 ^{0}C/2.16kg)	8 g/10 min	ASTM D1238	•so 1133
Thermal	**Nominal Values**	**Test Method(s)**	
*Melting Point(DSC)	72 ^{0}C (161.6 ^{0}F)	ASTM D3417	•so 3146

Processing Information

Processin Information

*Maximum Processing Temperature	280 ^{0}C (536 ^{0}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.

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.

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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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http://www.dow.com/products_services

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P&SP Disclaimer

Additional Information

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

http://www.dow.com
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ENTEC

Elvaloy® AM

DuPont Packaging & Industrial Polymers - Thermoplastic

Wednesday, November 6, 2019

General Information

Product Description

DuPont™ Elvaloy® AM is a Reactive Elastomeric Terpolymer (RET) that can be used to modify the properties of asphalt binder used in paving.

Elvaloy® AM has a medium level of chemical reactivity of the terpolymers manufactured by DuPont 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.

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Terpolymer		
Uses	• Asphalt Modification		
Forms	• Pellets		

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.942		ASTM D792
Density	0.940	g/cm³	ISO 1183
Apparent (Bulk) Density	0.58	g/cm³	
Melt Mass-Flow Rate (190°C/2.16 kg)	12	g/10 min	ASTM D1238
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	12	g/10 min	ISO 1133
Thermal	**Nominal Value**	**Unit**	**Test Method**
Peak Melting Temperature	162	°F	ASTM D3418
Melting Temperature (DSC)	162	°F	ISO 3146
Additional Information	**Nominal Value**	**Unit**	
Maximum Processing Temperature	536	°F	

Notes

[1] Typical properties: these are not to be construed as specifications.

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