



Elvaloy® 5170

DuPont Packaging & Industrial Polymers - Thermoplastic

Wednesday, November 6, 2019

General Information

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.

General

Material Status	• Experimental: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Features	• Low Temperature Flexibility		
Uses	• Asphalt Modification		
Forms	• Pellets		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.952		ASTM D792
Density	0.950	g/cm ³	ISO 1183
Melt Mass-Flow Rate	12	g/10 min	ASTM D1238
Melt Mass-Flow Rate (MFR)	12	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	3650	psi	ASTM D638
Tensile Elongation (Break)	720	%	ASTM D638
Thermal	Nominal Value	Unit	Test Method
Peak Melting Temperature	176	°F	ASTM D3418
Melting Temperature (DSC)	176	°F	ISO 3146
Freezing Point			
--	131	°F	ASTM D3418
--	131	°F	ISO 3146

Additional Information

	Nominal Value	Unit
Maximum Processing Temperature	428	°F

Notes

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