



Elvaloy® HP4051

DuPont Packaging & Industrial Polymers - Ethylene n-Butyl Acrylate Copolymer

Sunday, November 3, 2019

General Information

Product Description

DuPont™ Elvaloy® HP4051 is a ethylene terpolymer, which is most commonly used as a modifier for a variety of other polymers.

E/nBA/CO = ethylene/n-butyl acrylate/carbon monoxide

General

Material Status	• Commercial: Active
Availability	• Europe • North America
Features	• Copolymer
Forms	• Pellets

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.00		ASTM D792
Density	1.00	g/cm ³	ISO 1183
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
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	899	psi	ASTM D638
Tensile Stress (Break)	899	psi	ISO 527-2
Tensile Elongation (Break)	1100	%	ASTM D638
Tensile Strain (Break)	1100	%	ISO 527-2
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	69		ASTM D2240
Shore Hardness (Shore A)	69		ISO 868
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature ²	-58.0	°F	DSC
Peak Melting Temperature	138	°F	ASTM D3418
Melting Temperature (DSC)	138	°F	ISO 3146

Notes

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

² loss modulus peak 1 hz