

DuPont Elvaloy® 3117 AC Ethylene and 17% Butyl Acrylate Copolymer

Category : Polymer , Film , Thermoplastic , Ethylene Butyl Acrylate

Material Notes:

Elvaloy® 3117 AC is intended for coextrusion and compounding. Due to its high melt flow rate, it is used also in extrusion coating. Elvaloy® 3117 AC is soft, flexible and has good adhesion to various polymers. It combines high melting point and good sealing properties. Elvaloy® 3117 AC is easily processed on standard equipment used for low density polyethylene. EBA polymers show excellent thermal stability, which allows higher processing temperatures, if needed. Information provided by DuPont.

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Elvaloy-3117-AC-Ethylene-and-17-Butyl-Acrylate-Copolymer.php

Physical Properties	Metric	English	Comments
Density	0.924 g/cc	0.0334 lb/in ³	ASTM D792 - ISO 1183
Melt Flow	1.5 g/10 min @Load 2.16 kg, Temperature 190 °C	1.5 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238 - ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	90	90	ASTM D2240 - ISO 868
Hardness, Shore D	32	32	ASTM D2240 - ISO 868
Tensile Strength at Break	13.0 MPa	1890 psi	500 mm/min; ASTM D638 - ISO 527-2
Elongation at Break	800 %	800 %	500 mm/min; ASTM D638 - ISO 527-2
Tensile Modulus	0.0400 GPa	5.80 ksi	1 mm/min; ASTM D638 - ISO 527-2

Thermal Properties	Metric	English	Comments
Melting Point	99.0 °C	210 °F	By DSC; ASTM D3418 - ISO 3146
Vicat Softening Point	60.0 °C	140 °F	A₅₀ (10N); ASTM D1525 - ISO 306

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	150 °C	302 °F	Extrusion lamination and extrusion coating
	150 °C	302 °F	Cast film
	150 °C	302 °F	Blown film
Middle Barrel Temperature	160 °C	320 °F	Blown film
	210 °C	410 °F	Cast film

Processing Properties	Metric 220 °C	English 428 °F	Comments Extrusion lamination
Front Barrel Temperature	170 °C	338 °F	Blown film
	250 °C	482 °F	Cast film
	290 °C	554 °F	Extrusion lamination
Adapter Temperature	180 °C	356 °F	Blown film
	250 °C	482 °F	Cast Film
	290 °C	554 °F	Extrusion lamination
Die Temperature	180 °C	356 °F	Blown film
	250 °C	482 °F	Cast film
	290 °C	554 °F	Extrusion lamination
Melt Temperature	150 °C	302 °F	For film extrusion

Descriptive Properties	Value	Comments
BA-Content	17 wt. %	DuPont Method

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