

DuPont Elvaloy® 3217 AC Ethylene and 17% Butyl Acrylate Copolymer

Category : Polymer , Film , Thermoplastic , Ethylene Butyl Acrylate

Material Notes:

Elvaloy® 3217 AC contains antioxidant, slip and antiblock additives. Elvaloy® 3217 AC has been developed for film applications requiring a combination of softness, toughness and low friction. Typical applications are hygiene films and examination and veterinary gloves.

Flexibility and easy sealing make it suitable for colostomy, ileostomy and urinary pouches. Processing characteristics of Elvaloy® 3217 AC are similar to LDPE and conventional polyethylene extruders are recommended. Elvaloy® 3217 AC works very well in both hot bar and high frequency welding units. The low seal temperature ensures short welding cycles and little impact on packed content. The high polarity of EBA gives good performance in high frequency welding. The slip and antiblock content is adapted to production of thin films. For thicker films, mixing with Elvaloy® 3117 is recommended to increase friction. Information provided by DuPont.

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Elvaloy-3217-AC-Ethylene-and-17-Butyl-Acrylate-Copolymer.php

Physical Properties	Metric	English	Comments
Density	0.926 g/cc	0.0335 lb/in ³	Base resin; ISO 1183
Thickness	25.0 microns	0.984 mil	Minimum recommended
Melt Flow	1.8 g/10 min @Load 2.16 kg, Temperature 190 °C	1.8 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238 - ISO 1133

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	240 %	240 %	500 mm/min; ISO 527-3
Film Elongation at Break, TD	680 %	680 %	500 mm/min; ISO 527-3
Coefficient of Friction, Dynamic	0.10	0.10	MD; ISO 8295
Film Tensile Strength at Break, MD	25.0 MPa	3630 psi	500 mm/min; ISO 527-3
Film Tensile Strength at Break, TD	15.0 MPa	2180 psi	500 mm/min; ISO 527-3

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	220 °C Metric	428 °F English	Extrusion lamination Comments
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	170 - 180 °C	338 - 356 °F	
Blow-up Ratio (BUR)	2.0	2.0	for 25 micron film

Descriptive Properties	Value	Comments
BA-Content	17 wt.%	DuPont Method
Puncture Resistance	18 N	DuPont Method

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