

DuPont Elvaloy® 3108 AC Ethylene and 7% Butyl Acrylate Copolymer (discontinued **)

Category : Polymer , Film , Thermoplastic , Ethylene Butyl Acrylate

Material Notes:

Elvaloy® 3108 AC contains antioxidant, slip and antiblock additives. Elvaloy® 3108 AC is developed to give films with good sealing properties, impact strength at lower temperature, and low shrinkage temperature. Processing characteristics of Elvaloy® 3108 AC are similar to LDPE and conventional polyethylene extruders are recommended. Information provided by DuPont.

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Elvaloy-3108-AC-Ethylene-and-7-Butyl-Acrylate-Copolymer-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	0.924 g/cc	0.0334 lb/in ³	ASTM D792 - ISO 1183
Thickness	40.0 microns	1.57 mil	
Melt Flow	1.1 g/10 min @Load 2.16 kg, Temperature 190 °C	1.1 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238 - ISO 1133

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	8.00 MPa	1160 psi	500 mm/min; ISO 527-3
Film Tensile Strength at Yield, TD	7.00 MPa	1020 psi	500 mm/min; ISO 527-3
Film Elongation at Break, MD	200 %	200 %	500 mm/min; ISO 527-3
Film Elongation at Break, TD	600 %	600 %	500 mm/min; ISO 527-3
Coefficient of Friction, Dynamic	0.15	0.15	MD; ISO 8295
Elmendorf Tear Strength, MD	0.0250 g/micron	0.635 g/mil	ISO 6383/2
Elmendorf Tear Strength, TD	0.0250 g/micron	0.635 g/mil	ISO 6383/2
Dart Drop	7.50 g/micron	191 g/mil	ISO 7765/1A
Film Tensile Strength at Break, MD	24.0 MPa	3480 psi	500 mm/min; ISO 527-3
Film Tensile Strength at Break, TD	18.0 MPa	2610 psi	500 mm/min; ISO 527-3

Optical Properties	Metric	English	Comments
Haze	16 %	16 %	ASTM D1003
Gloss	60 %	60 %	ASTM D2457

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
	220 °C	428 °F	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
Blow-up Ratio (BUR)	2.0	2.0	for 40 micron film

Descriptive Properties	Value	Comments
BA-Content	7 wt. %	DuPont Method

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