

DuPont Elvaloy® 2116 AC Ethylene and 16% Ethyl Acrylate Copolymer

Category : Polymer , Film , Thermoplastic

Material Notes:

Elvaloy® 2116 AC is intended for profile and tube extrusion. Its good chemical resistance, low temperature toughness and good flex life make it outstanding for specialty tubing. The material also is recommended for contour extrusion and for blow molding of toys, gaskets and other parts requiring permanent flexibility, stress cracking resistance and low temperature toughness. Elvaloy® 2116 AC also can be used in film applications where softness and flexibility are needed. Elvaloy® 2116 AC is easily processed on standard equipment used for low density polyethylene. It is very heat stable and does not give corrosive decomposition products during processing, even at the upper limit of the recommended temperature range. Information provided by DuPont.

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Elvaloy-2116-AC-Ethylene-and-16-Ethyl-Acrylate-Copolymer.php

Physical Properties	Metric	English	Comments
Density	0.930 g/cc	0.0336 lb/in ³	ASTM D792 - ISO 1183
Melt Flow	1.0 g/10 min @Load 2.16 kg, Temperature 190 °C	1.0 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238 - ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	88	88	ASTM D2240 - ISO 868
Hardness, Shore D	31	31	ASTM D2240 - ISO 868
Tensile Strength at Break	15.0 MPa	2180 psi	500 mm/min; ASTM D638 - ISO 527-2
Elongation at Break	690 %	690 %	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	96.0 °C	205 °F	By DSC; ASTM D3418 - ISO 3146
Vicat Softening Point	60.0 °C	140 °F	A ₅₀ (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 Processing Properties	160 °C Metric	320 °F English	Blown film Comments
	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
Melt Temperature	160 - 220 °C	320 - 428 °F	For blow molding

Descriptive Properties	Value	Comments
EA-Content	16 wt. %	DuPont Method

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