

DuPont Elvaloy® 1218 AC Ethylene and 18% Methyl Acrylate Copolymer

Category : Polymer , Film , Thermoplastic , Ethylene Methyl Acrylate , Ethylene-Methyl Acrylate Copolymer, Molding Grade

Material Notes:

Elvaloy® 1218 AC is intended for coextrusion, compounding and injection molding. Elvaloy® 1218 AC has good adhesion to various substrates (OPA, OPP, paperboard, etc.), gives excellent sealing properties and has high filler acceptance. Elvaloy® 1218 AC is easily processed on standard equipment used for low-density polyethylene. Information provided by DuPont.

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Elvaloy-1218-AC-Ethylene-and-18-Methyl-Acrylate-Copolymer.php

Physical Properties	Metric	English	Comments
Density	0.940 g/cc	0.0340 lb/in ³	ASTM D792 - ISO 1183
Melt Flow	2.0 g/10 min @Load 2.16 kg, Temperature 190 °C	2.0 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238 - ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	89	89	ASTM D2240 - ISO 868
Hardness, Shore D	35	35	ASTM D2240 - ISO 868
Tensile Strength at Break	13.0 MPa	1890 psi	500 mm/min; ASTM D638 - ISO 527-2
Elongation at Break	600 %	600 %	500 mm/min; ASTM D638 - ISO 527-2
Tensile Modulus	0.0450 GPa	6.53 ksi	1 mm/min; ASTM D638 - ISO 527-2

Thermal Properties	Metric	English	Comments
Melting Point	94.0 °C	201 °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	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

Descriptive Properties	Value	Comments
MA-Content	18 wt. %	DuPont Method

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