

## DuPont Elvaloy® 1820 AC Ethylene and 20% Methyl Acrylate Copolymer

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

### Material Notes:

Elvaloy® 1820 AC is intended for film coextrusion, compounding and injection molding. Due to its high melt flow rate, it also can be used in extrusion coating/lamination. Elvaloy® 1820 AC has good adhesion to various substrates (OPA, OPP, paperboard, etc.), gives excellent sealing properties and has high filler acceptance. Elvaloy® 1820 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-1820-AC-Ethylene-and-20-Methyl-Acrylate-Copolymer.php](http://www.lookpolymers.com/polymer_DuPont-Elvaloy-1820-AC-Ethylene-and-20-Methyl-Acrylate-Copolymer.php)

Physical Properties	Metric	English	Comments
Density	0.942 g/cc	0.0340 lb/in <sup>3</sup>	ASTM D792 - ISO 1183
Melt Flow	8.0 g/10 min @Load 2.16 kg, Temperature 190 °C	8.0 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238 - ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	87	87	ASTM D2240 - ISO 868
Hardness, Shore D	28	28	ASTM D2240 - ISO 868
Tensile Strength at Break	11.0 MPa	1600 psi	500 mm/min; ASTM D638 - ISO 527-2
Elongation at Break	780 %	780 %	500 mm/min; ASTM D638 - ISO 527-2
Tensile Modulus	0.0350 GPa	5.08 ksi	1 mm/min; ASTM D638 - ISO 527-2

Thermal Properties	Metric	English	Comments
Melting Point	92.0 °C	198 °F	By DSC; ASTM D3418 - ISO 3146
Vicat Softening Point	54.0 °C	129 °F	A <sub>50</sub> (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

Descriptive Properties	Value	Comments
MA-Content	20 wt. %	DuPont Method

## Contact Songhan Plastic Technology Co.,Ltd.

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