

Elvaloy® AC 1820

Ethylene Methyl Acrylate Copolymer

DuPont Packaging & Industrial Polymers

Message:

Elvaloy® AC 1820 is a copolymer of ethylene and methyl acrylate. It is available in pellet form for use in conventional extrusion equipment designed to process polyethylene type resins.

20% Methyl Acrylate

General Information			
Features	Copolymer		
Agency Ratings	FDA 21 CFR 177.1340(a)		
Forms	Pellets		
Processing Method	Coextrusion		
	Extrusion Coating		

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.942	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	8.0	g/10 min	ASTM D1238, ISO 1133
Methyl Acrylate Content	20.0	wt%	

Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	54.0	°C	ASTM D1525, ISO 306
Peak Melting Temperature	92.0	°C	ASTM D3418, ISO 3146

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	185	°C
Cylinder Zone 2 Temp.	235	°C
Cylinder Zone 3 Temp.	260	°C
Cylinder Zone 4 Temp.	285	°C
Cylinder Zone 5 Temp.	285	°C
Adapter Temperature	285	°C
Melt Temperature	235 to 310	°C
Die Temperature	285	°C

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