



Elvaloy® AC 1820

DuPont Packaging & Industrial Polymers - Ethylene Methyl Acrylate Copolymer

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General Information

Product Description

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

Material Status	• Commercial: Active
Availability	• Europe • North America
Features	• Copolymer
Agency Ratings	• FDA 21 CFR 177.1340(a)
Forms	• Pellets
Processing Method	• Coextrusion • Extrusion Coating

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.944		ASTM D792
Density	0.942	g/cm ³	ISO 1183
Melt Mass-Flow Rate (190°C/2.16 kg)	8.0	g/10 min	ASTM D1238
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	8.0	g/10 min	ISO 1133
Methyl Acrylate Content	20.0	wt%	
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	129	°F	ASTM D1525
Vicat Softening Temperature	129	°F	ISO 306
Peak Melting Temperature	198	°F	ASTM D3418
Melting Temperature (DSC)	198	°F	ISO 3146

Processing Information

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	365	°F
Cylinder Zone 2 Temp.	455	°F
Cylinder Zone 3 Temp.	500	°F
Cylinder Zone 4 Temp.	545	°F
Cylinder Zone 5 Temp.	545	°F
Adapter Temperature	545	°F
Melt Temperature	455 to 590	°F
Die Temperature	545	°F

Notes

¹ Typical properties: these are not to be construed as specifications.