



Elvaloy® AC 1126

DuPont Packaging & Industrial Polymers - Ethylene Methyl Acrylate Copolymer

Sunday, November 3, 2019

General Information

Product Description

25% Methyl Acrylate

General

Material Status	• Commercial: Active	
Availability	• Europe	• North America
Features	• Copolymer • Good Flexibility	• High ESCR (Stress Crack Resist.) • Soft
Forms	• Pellets	
Processing Method	• Blow Molding	• Coextrusion

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	0.944	g/cm ³	ASTM D1505
Density	0.944	g/cm ³	ISO 1183
Melt Mass-Flow Rate (190°C/2.16 kg)	0.60	g/10 min	ASTM D1238
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.60	g/10 min	ISO 1133

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ²	2760	psi	ASTM D638
Tensile Modulus	2760	psi	ISO 527-2/1
Tensile Strength ³	2030	psi	ASTM D638
Tensile Stress (Yield)	2030	psi	ISO 527-2/500
Tensile Elongation ³ (Break)	860	%	ASTM D638
Tensile Strain (Break)	860	%	ISO 527-2/500

Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A	78		
Shore D	19		
Shore Hardness			ISO 868
Shore A	78		
Shore D	19		

Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	113	°F	ASTM D1525 ⁴
Vicat Softening Temperature	113	°F	ISO 306/A50
Melting Temperature (DSC)	194	°F	ISO 3146
Melting Temperature	194	°F	DSC

Processing Information

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	302	°F
Cylinder Zone 3 Temp.	428	°F
Cylinder Zone 5 Temp.	554	°F
Adapter Temperature	554	°F

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Extrusion	Nominal Value	Unit
Die Temperature	554	°F

Notes

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

² 0.039 in/min

³ 20 in/min

⁴ Rate A (50°C/h), Loading 1 (10 N)