

# Surlyn® 1707

Ionomer

DuPont Packaging & Industrial Polymers

## Message:

Surlyn® 1707 is available for use in conventional blown, cast film, and sheet extrusion equipment. It is also used in coextrusion equipment designed to process polyethylene and ethylene copolymer type resins.

General Information			
Features	Compliance of Food Exposure		
Uses	Films cast film Sheet		
Agency Ratings	FDA 21 CFR 177.1330(a)		
Processing Method	Blow film Co-extrusion molding cast film Sheet extrusion molding		

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.950	g/cm <sup>3</sup>	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.90	g/10 min	ASTM D1238, ISO 1133
Ion Type	Sodium		
Freezing Point			
--	51	°C	ISO 3146
--	51	°C	ASTM D3417

Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	58.0	°C	ASTM D1525, ISO 306
Peak Melting Temperature	92.0	°C	ASTM D3417, ISO 3146

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	135	°C
Cylinder Zone 2 Temp.	160	°C
Cylinder Zone 3 Temp.	185	°C
Cylinder Zone 4 Temp.	185	°C
Cylinder Zone 5 Temp.	185	°C
Adapter Temperature	185	°C
Melt Temperature	160 - 260	°C
Die Temperature	185	°C

Extrusion instructions
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The above processing values are for blown film. Cast film/sheet parameters: Feed Zone: 160°C Second Zone: 210°C Third Zone: 235°C Fourth Zone: 235°C Fifth Zone: 235°C Adapter Zone: 235°C Die Zone: 235°C

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