Surlyn® 1901 DuPont Packaging & Industrial Polymers - Ionomer

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Product Description

DuPont[™] Surlyn[®] 1901 is an ionomer of ethylene acid acrylate terpolymer.

The resin can be processed in conventional blown film, cast film, sheet extrusion and coextrusion equipment designed to process polyethylene and ethylene copolymer type resins.

General Information

General				
Material Status	Commercial: Active			
Availability	Africa & Middle East	Europe	North America	
	 Asia Pacific 	 Latin America 		
Features	Terpolymer			
Uses	Blown Film	• Film		
	 Cast Film 	Sheet		
Agency Ratings	• FDA 21 CFR 177.1330(b)			
Forms	Pellets			
Processing Method	Blown Film	Coextrusion		
	 Cast Film 	 Sheet Extrusion 		

ASTM & ISO Properties 1

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.942		ASTM D792
Density	0.940	g/cm ³	ISO 1183
Melt Mass-Flow Rate (190°C/2.16 kg)	1.3	g/10 min	ASTM D1238
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.3	g/10 min	ISO 1133
lon Type	Sodium		
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	158	°F	ASTM D1525
Vicat Softening Temperature	158	°F	ISO 306
Peak Melting Temperature	203	°F	ASTM D3417
Melting Temperature (DSC)	203	°F	ISO 3146
Freezing Point			
	129	°F	ASTM D3417
	129	°F	ISO 3146

Processing Information				
Injection	Nominal Value	Unit		
Processing (Melt) Temp	320 to 500	°F		
Extrusion	Nominal Value	Unit		
Cylinder Zone 1 Temp.	275	°F		
Cylinder Zone 2 Temp.	320	°F		
Cylinder Zone 3 Temp.	365	°F		
Cylinder Zone 4 Temp.	365	°F		
Cylinder Zone 5 Temp.	365	°F		
Adapter Temperature	365	°F		
Die Temperature	365	°F		

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Extrusion Notes

The above processing values are for blown film.

- Cast film 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

Notes

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



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