



# Surlyn® 1601-2

DuPont Packaging & Industrial Polymers - Ionomer

Monday, September 21, 2020

## General Information

### Product Description

DuPont™ Surlyn® 1601-2 is an ionomer of ethylene acid copolymer.

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

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

## ASTM & ISO Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.942		ASTM D792
Density	0.940	g/cm <sup>3</sup>	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
Ion Type	Sodium		
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	165	°F	ASTM D1525
Vicat Softening Temperature	165	°F	ISO 306
Peak Melting Temperature	208	°F	ASTM D3417
Melting Temperature (DSC)	208	°F	ISO 3146
Freezing Point			
--	154	°F	ASTM D3417
--	154	°F	ISO 3146

## Processing Information

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	320	°F
Cylinder Zone 2 Temp.	410	°F
Cylinder Zone 3 Temp.	455	°F
Cylinder Zone 4 Temp.	455	°F
Cylinder Zone 5 Temp.	455	°F
Adapter Temperature	455	°F
Melt Temperature	320 to 500	°F
Die Temperature	455	°F

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### Extrusion Notes

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Blown Film Parameters:

Feed Zone: 135°C

Second Zone: 160°C

Third Zone: 185°C

Fourth Zone: 185°C

Fifth Zone: 185°C

Adapter Zone: 185°C

Die Zone: 185°C

### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.