



## Surlyn® 8150

DuPont Packaging & Industrial Polymers - Ethylene Acrylic Acid Copolymer

Monday, September 21, 2020

### General Information

#### Product Description

DuPont™ Surlyn® 8020 is an ionomer of ethylene acid acrylate terpolymer.

This polymeric material can be processed in conventional extrusion and injection equipment designed to process polyethylene and ethylene copolymer type resins, to create various shapes and sheeting.

#### General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Food Contact Acceptable	• Sodium Ionomer	
Uses	• Sheet		
Agency Ratings	• FDA 21 CFR 177.1330(a)		
Forms	• Pellets		
Processing Method	• Extrusion	• Injection Molding	• Sheet Extrusion

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

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.972		ASTM D792
Density	0.970	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (190°C/2.16 kg)	4.5	g/10 min	ASTM D1238
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	4.5	g/10 min	ISO 1133
Ion Type	Sodium		
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break, 73°F)	4500	psi	ASTM D638
Tensile Stress (Break, 73°F)	4500	psi	ISO 527-2
Tensile Elongation (Break, 73°F)	320	%	ASTM D638
Tensile Strain (Break, 73°F)	320	%	ISO 527-2
Flexural Modulus (73°F)	71100	psi	ASTM D790
Abrasion Resistance - NBS Index	301		ASTM D1630
Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength (73°F)	427	ft-lb/in <sup>2</sup>	ASTM D1822
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	65		ASTM D2240
Shore Hardness (Shore D)	65		ISO 868
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	127	°F	ASTM D1525
Vicat Softening Temperature	127	°F	ISO 306
Peak Melting Temperature	183	°F	ASTM D3418
Melting Temperature (DSC)	183	°F	ISO 3146
Freezing Point			
--	104	°F	ASTM D3418
--	104	°F	ISO 3146

# Surlyn® 8150

## DuPont Packaging & Industrial Polymers - Ethylene Acrylic Acid Copolymer

Optical	Nominal Value	Unit	Test Method
Haze (250.0 mil)	1.30	%	ASTM D1003
Additional Information	Nominal Value	Unit	
Maximum Processing Temperature	545	°F	

### Processing Information

Injection	Nominal Value	Unit
Processing (Melt) Temp	365 to 545	°F

### Notes

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