



## Surlyn® 9320

DuPont Packaging & Industrial Polymers - Ethylene Methacrylic Acid

Monday, September 21, 2020

### General Information

#### Product Description

DuPont™ Surlyn® 9320 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	• Terpolymer		
Uses	• Sheet		
Forms	• Pellets		
Processing Method	• Blow Molding • Extrusion	• Injection Molding • Sheet Extrusion	

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

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.962		ASTM D792
Density	0.960	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (190°C/2.16 kg)	0.80	g/10 min	ASTM D1238
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.80	g/10 min	ISO 1133
Ion Type	Zinc		
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 73°F)	508	psi	ASTM D638
Tensile Strength (Break, 73°F)	2310	psi	ASTM D638
Tensile Stress (Break, 73°F)	2310	psi	ISO 527-2
Tensile Elongation (Break, 73°F)	530	%	ASTM D638
Tensile Strain (Break, 73°F)	530	%	ISO 527-2
Flexural Modulus (73°F)	4290	psi	ASTM D790
Abrasion Resistance - NBS Index	169		ASTM D1630
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	40		ASTM D2240
Shore Hardness (Shore D)	40		ISO 868
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	118	°F	ASTM D1525
Vicat Softening Temperature	118	°F	ISO 306
Peak Melting Temperature	158	°F	ASTM D3418
Melting Temperature (DSC)	158	°F	ISO 3146
Freezing Point			
--	99	°F	ASTM D3418
--	99	°F	ISO 3146
Optical	Nominal Value	Unit	Test Method
Haze (250.0 mil)	12.3	%	ASTM D1003

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### 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.