

Monday, September 21, 2020

### **General Information**

#### **Product Description**

DuPont<sup>™</sup> Surlyn<sup>®</sup> 9020 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.

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General			
Material Status	Commercial: Active		
Availability	<ul><li> Africa &amp; Middle East</li><li> Asia Pacific</li></ul>	<ul><li>Europe</li><li>Latin America</li></ul>	North America
Features	Terpolymer		
Uses	<ul> <li>Blow Molding Applications</li> </ul>	Sheet	
Forms	Pellets		
Processing Method	<ul><li>Blow Molding</li><li>Extrusion</li></ul>	<ul><li>Injection Molding</li><li>Sheet Extrusion</li></ul>	

ASTI	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)	1.0	g/10 min	ASTM D1238	
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.0	g/10 min	ISO 1133	
Ion Type	Zinc			
Mechanical	Nominal Value	Unit	Test Method	
Tensile Strength (Break, 73°F)	3770	psi	ASTM D638	
Tensile Stress (Break, 73°F)	3770	psi	ISO 527-2	
Tensile Elongation (Break, 73°F)	510	%	ASTM D638	
Tensile Strain (Break, 73°F)	510	%	ISO 527-2	
Flexural Modulus			ASTM D790	
-4°F	77000	psi		
73°F	14500	psi		
Abrasion Resistance - NBS Index	220		ASTM D1630	
Impact	Nominal Value	Unit	Test Method	
Tensile Impact Strength			ASTM D1822	
-40°F	565	ft·lb/in²		
73°F	610	ft·lb/in²		
Hardness	Nominal Value	Unit	Test Method	
Durometer Hardness (Shore D)	55		ASTM D2240	
Shore Hardness (Shore D)	55		ISO 868	
Thermal	Nominal Value	Unit	Test Method	
Brittleness Temperature	-170	°F	ASTM D746	
Vicat Softening Temperature	135	°F	ASTM D1525	
Vicat Softening Temperature	135	°F	ISO 306	
Peak Melting Temperature	185	°F	ASTM D3418	
Melting Temperature (DSC)	185	°F	ISO 3146	

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# Surlyn® 9020

# DuPont Packaging & Industrial Polymers - Ethylene Methacrylic Acid

Thermal	Nominal Value	Unit	Test Method
Freezing Point			
	147	°F	ASTM D3418
	147	°F	ISO 3146
Optical	Nominal Value	Unit	Test Method
Haze (250.0 mil)	7.00	%	ASTM D1003
	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.



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