

# Surlyn® 8320

Ethylene Methacrylic Acid

DuPont Packaging & Industrial Polymers

## Message:

Surlyn® 8320 is a sodium ionomer thermoplastic resin. It is available for use in conventional extrusion and injection equipment, to create various sheets or shapes. Surlyn® 8320 thermoplastic resin is an advanced ethylene/acid/acrylate terpolymer, in which some of the MAA acid groups have been partially neutralized with sodium ions.

General Information			
Features	Sodium Ionomer		
	Copolymer		
	Hardness, low		
Uses	Sporting goods		
Forms	Particle		
Processing Method	Sheet extrusion molding		
	Injection molding		

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.950	g/cm <sup>3</sup>	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.0	g/10 min	ASTM D1238, ISO 1133
Ion Type	Sodium		
Wear resistance-NBS Index	61.0		ASTM D1630
Freezing Point			
--	38	°C	ISO 3146
--	38	°C	ASTM D3418

Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	36		ASTM D2240, ISO 868

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield, 23°C, molded <sup>1</sup>	3.10	MPa	ASTM D638
Fracture, 23°C	18.6	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Break, 23°C)	560	%	ASTM D638, ISO 527-2
Flexural Modulus (23°C)	30.3	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength (23°C)	1270	kJ/m <sup>2</sup>	ASTM D1822

Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	47.0	°C	ASTM D1525, ISO 306
Peak Melting Temperature	70.0	°C	ASTM D3418, ISO 3146

Optical	Nominal Value	Unit	Test Method
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Haze (6350 μm)	27	%	ASTM D1003
Additional Information			
Cation Type: Sodium			
NOTE			
1.	Type 4, 50mm/min		

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