

Surlyn® 9320

Ethylene Methacrylic Acid
DuPont Packaging & Industrial Polymers

Message:

Surlyn® 9320 is a zinc ionomer thermoplastic resin. It is available for use in conventional extrusion and injection equipment, to create various sheets or shapes.
Surlyn® 9320 thermoplastic resin is an advanced ethylene/acid/acrylate terpolymer, in which some of the MAA acid groups have been partially neutralized with zinc ions.

General Information			
Features	Copolymer		
Forms	Pellets		
Processing Method	Blow Molding		
	Injection Molding		
	Sheet Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.960	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.80	g/10 min	ASTM D1238, ISO 1133
Ion Type	Zinc		
Abrasion Resistance - NBS Index	169		ASTM D1630
Freezing Point			
--	37	°C	ISO 3146
--	37	°C	ASTM D3418
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	40		ASTM D2240, ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield, 23°C	3.50	MPa	ASTM D638
Break, 23°C	15.9	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Break, 23°C)	530	%	ASTM D638, ISO 527-2
Flexural Modulus (23°C)	29.6	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	48.0	°C	ASTM D1525, ISO 306
Peak Melting Temperature	70.0	°C	ASTM D3418, ISO 3146
Optical	Nominal Value	Unit	Test Method
Haze (6350 μm)	12	%	ASTM D1003
Injection	Nominal Value	Unit	
Processing (Melt) Temp	185 to 285	°C	

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