

Surlyn® 9120

Ethylene Methacrylic Acid
DuPont Packaging & Industrial Polymers

Message:

Surlyn® 9120 is a zinc ionomer thermoplastic resin. It is available for use in conventional extrusion and injection equipment, to create various sheets or shapes. Surlyn® 9120 thermoplastic resin is an advanced ethylene/methacrylic acid (E/MAA) copolymer, in which the MAA acid groups have been partially neutralized with zinc ions.

General Information			
Features	Copolymer		
Agency Ratings	FDA 21 CFR 177.1330(a)		
Forms	Pellets		
Processing Method	Extrusion		
	Injection Molding		

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.970	g/cm³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.3	g/10 min	ASTM D1238, ISO 1133
Ion Type	Zinc		
Abrasion Resistance - NBS Index	1030		ASTM D1630
Freezing Point			
--	53	°C	ISO 3146
--	53	°C	ASTM D3418

Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	66		ASTM D2240, ISO 868

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break, 23°C)	36.5	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Break, 23°C)	350	%	ASTM D638, ISO 527-2
Flexural Modulus (23°C)	428	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength (23°C)	1160	kJ/m²	ASTM D1822

Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	60.0	°C	ASTM D1525, ISO 306
Peak Melting Temperature	86.0	°C	ASTM D3418, ISO 3146

Optical	Nominal Value	Unit	Test Method
Haze (6350 µm)	2.5	%	ASTM D1003

Injection	Nominal Value	Unit	
Processing (Melt) Temp	185 to 285	°C	

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