

Surlyn® 9520

Ethylene Methacrylic Acid
DuPont Packaging & Industrial Polymers

Message:

Surlyn® 9520 is a zinc ionomer thermoplastic resin. It is available for use in conventional extrusion and injection equipment, to create various sheets or shapes.

Surlyn® 9520 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			
Uses	Plastics Modification		
Agency Ratings	FDA 21 CFR 177.1330(a)		
Forms	Pellets		
Processing Method	Blow Molding		
	Extrusion		
	Injection Molding		
	Sheet Extrusion		

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.950	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.1	g/10 min	ASTM D1238, ISO 1133
Ion Type	Zinc		
Abrasion Resistance - NBS Index	290		ASTM D1630
Freezing Point			
--	76	°C	ASTM D3418
--	76	°C	ISO 3146

Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	60		ASTM D2240, ISO 868

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break, 23°C)	25.5	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Break, 23°C)	410	%	ASTM D638, ISO 527-2
Flexural Modulus			ASTM D790
-20°C	655	MPa	
23°C	260	MPa	

Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength			ASTM D1822
-40°C	1030	kJ/m ²	
23°C	1190	kJ/m ²	

Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	74.0	°C	ASTM D1525, ISO 306

Peak Melting Temperature	96.0	°C	ASTM D3418, ISO 3146
Optical	Nominal Value	Unit	Test Method
Haze (6350 μm)	26	%	ASTM D1003
Injection	Nominal Value	Unit	
Processing (Melt) Temp	185 to 285	°C	

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