

Surlyn® 9720

Ethylene Methacrylic Acid

DuPont Packaging & Industrial Polymers

Message:

Surlyn® 9720 is a zinc ionomer thermoplastic resin. It is available for use in conventional extrusion and injection equipment, to create various sheets or shapes.

Surlyn® 9720 thermoplastic resin is an advanced ethylene/methacrylic acid (E/MAA) copolymer, in which the MAA acid groups have been partially neutralized with zinc ions.

For wire and cable applications, this grade contains an antioxidant and meets Mil Spec P46124 MR, Type V, Class I requirements.

General Information			
Additive	Antioxidant		
Features	Antioxidant		
	Copolymer		
Uses	Wire & Cable Applications		
Agency Ratings	MIL P-46124 MR, Type V, Class I		
Forms	Pellets		
Processing Method	Blow Molding		
	Extrusion		
	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)	1.0	g/10 min	ASTM D1238, ISO 1133
Ion Type	Zinc		
Abrasion Resistance - NBS Index	410		ASTM D1630
Freezing Point			
--	76	°C	ASTM D3418
--	76	°C	ISO 3146
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	61		ASTM D2240, ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield, 23°C, Compression Molded ¹	11.7	MPa	ASTM D638
Break, 23°C	10.3	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Break, 23°C)	440	%	ASTM D638, ISO 527-2
Flexural Modulus			ASTM D790
-20°C	717	MPa	
23°C	250	MPa	

Elastomers	Nominal Value	Unit	Test Method
Tear Strength (23°C)	1.02	kN/m	ASTM D624
Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength			ASTM D1822
-40°C	1040	kJ/m ²	
23°C	1260	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-110	°C	ASTM D746
Vicat Softening Temperature	71.0	°C	ASTM D1525, ISO 306
Peak Melting Temperature	92.0	°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	
NOTE			
1.	Type IV, 50 mm/min		

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