

Surlyn® 9020

Ethylene Methacrylic Acid
DuPont Packaging & Industrial Polymers

Message:

Surlyn® 9020 is a zinc ionomer thermoplastic resin. It is available for use in conventional extrusion and injection equipment, to create various sheets or shapes.
Surlyn® 9020 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	Terpolymer		
Uses	Plastic modification		
Forms	Particle		
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
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	55		ASTM D2240, ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break, 23°C)	26.0	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Break, 23°C)	510	%	ASTM D638, ISO 527-2
Flexural Modulus			ASTM D790
-20°C	531	MPa	ASTM D790
23°C	100	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength			ASTM D1822
-40°C	1190	kJ/m ²	ASTM D1822
23°C	1280	kJ/m ²	ASTM D1822
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-112	°C	ASTM D746
Vicat Softening Temperature	57.0	°C	ASTM D1525, ISO 306
Peak Melting Temperature	85.0	°C	ASTM D3418, ISO 3146
Optical	Nominal Value	Unit	Test Method
Haze (6350 μm)	7.0	%	ASTM D1003
Additional Information			
Cation Type: ZincAbrasion Resistance, ASTM D1630: 220 NBS IndexFreezing Point, ASTM D3418: 64°C			
Injection	Nominal Value	Unit	
Processing (Melt) Temp	185 - 285	°C	

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