

Surlyn® 8020

Ethylene Methacrylic Acid
DuPont Packaging & Industrial Polymers

Message:

Surlyn® 8020 is a sodium ionomer thermoplastic resin. It is available for use in conventional extrusion and injection equipment, to create various sheets or shapes.
Surlyn® 8020 thermoplastic resin is an advanced ethylene/acid/acrylate terpolymer, in which some of the MAA acid groups have been partially neutralized with sodium ions.

General Information			
Features	Copolymer		
Agency Ratings	FDA 21 CFR 177.1330(b)		
Forms	Pellets		
Processing Method	Blow Molding		
	Extrusion		
	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)	1.0	g/10 min	ASTM D1238, ISO 1133
Ion Type	Sodium		
Abrasion Resistance - NBS Index	150		ASTM D1630
Freezing Point			
--	67	°C	ASTM D3418
--	67	°C	ISO 3146

Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	56		ASTM D2240, ISO 868

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break, 23°C)	31.0	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Break, 23°C)	530	%	ASTM D638, ISO 527-2
Flexural Modulus (23°C)	100	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength			ASTM D1822
-40°C	872	kJ/m ²	
23°C	1320	kJ/m ²	

Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-112	°C	ASTM D746
Vicat Softening Temperature	61.0	°C	ASTM D1525, ISO 306
Peak Melting Temperature	82.0	°C	ASTM D3418, ISO 3146

Optical	Nominal Value	Unit	Test Method
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Haze (6350 μm)	19	%	ASTM D1003
Injection	Nominal Value	Unit	
Processing (Melt) Temp	185 to 285	°C	

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