

Surlyn® 8940

Ethylene Methacrylic Acid
DuPont Packaging & Industrial Polymers

Message:

Surlyn® 8940 is a sodium ionomer thermoplastic resin. It is available for use in conventional extrusion and injection equipment, to create various sheets or shapes.

Surlyn® 8940 thermoplastic resin is an advanced ethylene/methacrylic acid (E/MAA) copolymer, in which the MAA acid groups have been partially neutralized with sodium ions.

General Information			
Features	Copolymer		
Agency Ratings	FDA 21 CFR 177.1330(a)		
Forms	Pellets		
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)	2.8	g/10 min	ASTM D1238, ISO 1133
Ion Type	Sodium		
Abrasion Resistance - NBS Index	370		ASTM D1630
Freezing Point			
--	59	°C	ASTM D3418
--	59	°C	ISO 3146
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	65		ASTM D2240, ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break, 23°C)	33.0	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Break, 23°C)	470	%	ASTM D638, ISO 527-2
Flexural Modulus			ASTM D790
-20°C	717	MPa	
23°C	350	MPa	
Flexural Strength (Yield)	15.0	MPa	ASTM D790
Elastomers	Nominal Value	Unit	Test Method
Tear Strength (23°C)	1.48	kN/m	ASTM D624
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	1000	J/m	ASTM D256
Tensile Impact Strength			ASTM D1822
-40°C	757	kJ/m ²	
23°C	1020	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-106	°C	ASTM D746
Vicat Softening Temperature	63.0	°C	ASTM D1525, ISO 306

Peak Melting Temperature	94.0	°C	ASTM D3418, ISO 3146
Optical	Nominal Value	Unit	Test Method
Haze (6350 μm)	5.0	%	ASTM D1003
Injection	Nominal Value	Unit	
Processing (Melt) Temp	185 to 285	°C	

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