Surlyn® 8940-E

Ionomer

DuPont Packaging & Industrial Polymers

Message:

Surlyn® 8940-E is a sodium ionomer thermoplasic resin. It is available for use in conventional extrusion and injection equipment, to create various sheets or shape.
Surlyn® 8940-E 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	Food Contact Acceptable
Agency Ratings	FDA 21 CFR 177.1330
Forms	Pellets
Processing Method	Blow Molding
	Extrusion
	Injection Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.950	g/cm³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.8	g/10 min	ASTM D1238, ISO 1133
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	65		ASTM D2240, ISO 868
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength			ASTM D638, ISO 527-2
Yield, 23°C	15.0	MPa	
Break, 23°C	33.0	MPa	
Tensile Elongation (Break, 23°C)	470	%	ASTM D638, ISO 527-2
Flexural Modulus			ASTM D790
-20°C	717	MPa	
23°C	350	MPa	
Abrasion Resistance - NBS Index	370		ASTM D1630
Freezing Point	59	°C	ASTM D3418
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/m²	
23°C	1020	kJ/m²	
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	
Extrusion	Nominal Value	Unit	
Melt Temperature	185 to 285	°C	

Recommended distributors for this material

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