



Surlyn® 8945

DuPont Packaging & Industrial Polymers - Ionomer

Monday, September 21, 2020

General Information

Product Description

DuPont™ Surlyn® 8945 is an ionomer of ethylene acid copolymer.

This polymeric material can be processed in conventional extrusion and injection equipment designed to process polyethylene and ethylene copolymer type resins, to create various shapes and sheeting.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Fast Molding Cycle • Good Processability	• High Flow • Resilient	• Sodium Ionomer
Uses	• Blow Molding Applications	• Sheet	
Forms	• Pellets		
Processing Method	• Blow Molding • Extrusion	• Injection Molding • Sheet Extrusion	

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.952		ASTM D792
Density	0.950	g/cm ³	ISO 1183
Melt Mass-Flow Rate (190°C/2.16 kg)	4.5	g/10 min	ASTM D1238
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	4.5	g/10 min	ISO 1133
Ion Type	Sodium		
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Sodium			

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	2320	psi	ASTM D638
Tensile Strength (Break)	3190	psi	ASTM D638
Tensile Stress (Break)	3190	psi	ISO 527-2
Tensile Elongation (Break)	330	%	ASTM D638
Tensile Strain (Break)	330	%	ISO 527-2
Flexural Modulus	65000	psi	ASTM D790

Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	65		ASTM D2240
Shore Hardness (Shore D)	65		ISO 868

Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	160	°F	ASTM D1525
Vicat Softening Temperature	160	°F	ISO 306
Peak Melting Temperature	190	°F	ASTM D3418
Melting Temperature (DSC)	190	°F	ISO 3146
Freezing Point			
--	117	°F	ASTM D3418
--	117	°F	ISO 3146

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Processing Information

Injection	Nominal Value	Unit
Processing (Melt) Temp	365 to 545	°F

Notes

¹ Typical properties: these are not to be construed as specifications.