ENTEC Surlyn[®] 8945 DuPont Packaging & Industrial Polymers - Ionomer

Monday, September 21, 2020

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 Information

Material Status	Commercial: Active		
Availability	 Africa & Middle East Asia Pacific	EuropeLatin America	North America
Features	Fast Molding CycleGood Processability	High FlowResilient	Sodium Ionomer
Uses	 Blow Molding Applications 	Sheet	
Forms	Pellets		
Processing Method	Blow MoldingExtrusion	Injection MoldingSheet Extrusion	

ASTN Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.952		ASTM D792
Density		g/cm ³	ISO 1183
Melt Mass-Flow Rate (190°C/2.16 kg)		g/10 min	ASTM D1238
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)		g/10 min	ISO 1133
		9,	
	Sodium		
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
<u></u>	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.



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