

Surlyn® E185SB

DuPont Packaging & Industrial Polymers - Ionomer

Monday, September 21, 2020

General Information

Product Description

DuPont™ Surlyn® E185SB is an ionomer of ethylene acid acrylate terpolymer.

The resin can be processed in conventional blown film, cast film, sheet extrusion and coextrusion equipment designed to process polyethylene and ethylene copolymer type resins.

Surlyn® E185SB can be coextruded with HDPE to provide delamination-type peelable seals. The seal strength can be controlled by processing conditions and/or the thickness of Surlyn® E185SB layer. Thickness is typically in the range of 5 to 15 microns (0.20 to 0.60 mils).

Other benefits of Surlyn® E185SB include:

- · Very low seal initiation temperature
- Broad sealing temperature range

General			
Material Status	Commercial: Active		
Availability	Africa & Middle EastAsia Pacific	EuropeLatin America	North America
Additive	 Antiblock 	• Slip	
Features	AntiblockingFood Contact Acceptable	Low Temperature Heat SealabilitySlip	Terpolymer
Uses	Blown FilmCast Film	FilmPackaging	SealantsSheet
Agency Ratings	• FDA 21 CFR 175.300	• FDA 21 CFR 175.320	
Processing Method	Blown FilmCast Film	CoextrusionSheet Extrusion	

ASTM & ISO Properties ¹					
Nominal Value	Unit	Test Method			
0.952		ASTM D792			
0.950	g/cm³	ISO 1183			
3.0	g/10 min	ASTM D1238			
3.0	g/10 min	ISO 1133			
Nominal Value	Unit	Test Method			
140	°F	ASTM D1525			
140	°F	ISO 306			
192	°F	ASTM D3417			
192	°F	ISO 3146			
144	°F	ASTM D3417			
144	°F	ISO 3146			
	Nominal Value 0.952 0.950 3.0 3.0 Nominal Value 140 140 192 192	Nominal Value Unit			



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Processing Information				
Nominal Value	Unit			
275	°F			
320	°F			
365	°F			
320 to 455	°F			
365	°F			
	Processing Information Nominal Value 275 320 365 365 365 320 to 455 365			

The above processing values are for blown film.

Cast film/sheet parameters:
 Feed Zone: 135°C
 Second Zone: 160°C
 Third Zone: 185°C
 Fourth Zone: 210°C

Fifth Zone: 210°C
Adapter Zone: 210°C
Die Zone: 210°C

Notes



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