

Surlyn® E185SB

Ionomer

DuPont Packaging & Industrial Polymers

Message:

Surlyn® E185SB is an ionomer of an acid copolymer resin. It is designed for coextrusion with high-density polyethylene in peelable seals applications. It can be used in extrusion equipment designed to typically process polyethylene resins.

General Information			
Additive	Anti-caking agent		
	slip agent		
Features	Low temperature heat sealability		
	smoothness		
	Anti-caking property		
	Compliance of Food Exposure		
Uses	Packaging		
	Films		
	Sealant		
Agency Ratings	FDA 21 CFR 175.300		
	FDA 21 CFR 175.320		
Processing Method	Co-extrusion molding		
	Extrusion		
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)	3.0	g/10 min	ASTM D1238, ISO 1133
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	60.0	°C	ASTM D1525, ISO 306
Peak Melting Temperature	89.0	°C	ASTM D3417, ISO 3146
Freezing Point			
--	62	°C	ISO 3146
--	62	°C	ASTM D3417
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	135	°C	
Cylinder Zone 2 Temp.	160	°C	
Cylinder Zone 3 Temp.	185	°C	
Cylinder Zone 4 Temp.	185	°C	

Cylinder Zone 5 Temp.	185	°C
Adapter Temperature	185	°C
Melt Temperature	160 - 235	°C
Die Temperature	185	°C

Extrusion instructions

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

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