

Surlyn® 1652SB

Ionomer

DuPont Packaging & Industrial Polymers

Message:

Surlyn® 1652SB is available for use in conventional blown, cast film, sheet extrusion and coextrusion equipment. It is also used in extrusion coating and coextrusion coating equipment designed to process polyethylene and ethylene copolymer type resins.
Contains slip and antiblock additives

General Information	
Additive	Anti-caking agent slip agent
Features	smoothness Anti-caking property
Uses	Films cast film Sheet Coating application
Agency Ratings	FDA 21 CFR 177.1330(a)
Forms	Particle
Processing Method	Blow film Co-extrusion molding Extrusion coating cast film Sheet extrusion molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.940	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	4.6	g/10 min	ASTM D1238, ISO 1133
Ion Type	Zinc		
Freezing Point			
--	81	°C	ISO 3146
--	81	°C	ASTM D3417
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	79.0	°C	ASTM D1525, ISO 306
Peak Melting Temperature	101	°C	ASTM D3417, ISO 3146
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	160	°C	

Cylinder Zone 2 Temp.	210	°C
Cylinder Zone 3 Temp.	235	°C
Cylinder Zone 4 Temp.	235	°C
Cylinder Zone 5 Temp.	235	°C
Adapter Temperature	235	°C
Melt Temperature	185 - 285	°C
Die Temperature	235	°C

Extrusion instructions

Blown Film Processing Paramters:Feed Temperature: 135°CSecond Zone Temperature: 160°CThird Zone Temperature: 185°CFourth Zone Temperature: 185°C Fifth Zone Temperature: 185°CAdapter Temperature: 185°CDie Temperature: 185°CExtrusion Coating/Laminating Processing Parameters:Feed Temperature: 160°CSecond Zone Temperature: 210°CThird Zone Temperature: 260°CFourth Zone Temperature: 285°C Fifth Zone Temperature: 285°CAdapter Temperature: 285°CDie Temperature: 285°C

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