

Surlyn® 1802

Ionomer

DuPont Packaging & Industrial Polymers

Message:

Surlyn® 1802 is available for use in conventional blown, cast film, and sheet extrusion equipment. It is also used in coextrusion equipment designed to process polyethylene and ethylene copolymer type resins.

General Information			
Uses	Films		
	cast film		
	Sheet		
Agency Ratings	FDA 21 CFR 177.1330(a)		
Forms	Particle		
Processing Method	Blow film		
	Co-extrusion molding		
	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)	4.3	g/10 min	ASTM D1238, ISO 1133
Ion Type	Sodium		
Freezing Point			
--	75	°C	ISO 3146
--	75	°C	ASTM D3417
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	75.0	°C	ASTM D1525, ISO 306
Peak Melting Temperature	99.0	°C	ASTM D3417, ISO 3146
Injection	Nominal Value	Unit	
Processing (Melt) Temp	160 - 260	°C	
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	
Die Temperature	185	°C	
Extrusion instructions			

The above processing values are for blown film.Cast film parameters:

Feed Zone: 160°C

Second Zone: 210°C

Third Zone: 235°C

Fourth Zone: 235°C

Fifth Zone: 235°C

Adapter Zone: 235°C

Die Zone: 235°C

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

