ENCE Surlyn® 1702 DuPont Packaging & Industrial Polymers - Ethylene Acrylic Acid Copolymer

Monday, September 21, 2020

General Information

Product Description

DuPont[™] Surlyn® 1702 is an ionomer of ethylene acid copolymer.

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

Commercial: Active		
 Africa & Middle East Asia Pacific	EuropeLatin America	North America
Blown FilmCast Film	Coating ApplicationsFilm	• Sheet
• FDA 21 CFR 177.1330(a)		
Pellets		
Blown FilmCast Film	CoextrusionExtrusion Coating	Sheet Extrusion
	 Africa & Middle East Asia Pacific Blown Film Cast Film FDA 21 CFR 177.1330(a) Pellets Blown Film 	 Africa & Middle East Asia Pacific Blown Film Cast Film FDA 21 CFR 177.1330(a) Pellets Blown Film Coextrusion

ASTM & ISO Properties ¹				
Physical	Nominal Value	Unit	Test Method	
Density / Specific Gravity	0.952		ASTM D792	
Density	0.950	g/cm³	ISO 1183	
Melt Mass-Flow Rate (190°C/2.16 kg)	14	g/10 min	ASTM D1238	
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	14	g/10 min	ISO 1133	
lon Type	Zinc			
Thermal	Nominal Value	Unit	Test Method	
Vicat Softening Temperature	149	°F	ASTM D1525	
Vicat Softening Temperature	149	°F	ISO 306	
Peak Melting Temperature	199	°F	ASTM D3417	
Melting Temperature (DSC)	199	°F	ISO 3146	
Freezing Point				
	147	°F	ASTM D3417	
	147	°F	ISO 3146	

Processing Information		
Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	275	°F
Cylinder Zone 2 Temp.	365	°F
Cylinder Zone 3 Temp.	410	°F
Cylinder Zone 4 Temp.	410	°F
Cylinder Zone 5 Temp.	410	°F
Adapter Temperature	410	°F
Melt Temperature	320 to 455	°F
Die Temperature	410	°F



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Extrusion Notes

Blown Film Processing Paramters: Feed Temperature: 110°C Second Zone Temperature: 135°C Third Zone Temperature: 160°C Fourth Zone Temperature: 160°C Fifth Zone Temperature: 160°C Adapter Temperature: 160°C Die Temperature: 160°C

Extrusion Coating/Laminating Processing Parameters: Feed Temperature: 160°C Second Zone Temperature: 210°C Third Zone Temperature: 235°C Fourth Zone Temperature: 235°C Fifth Zone Temperature: 235°C Adapter Temperature: 235°C Die Temperature: 235°C

Notes

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



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