ENTEC Surlyn[®] 1650 DuPont Packaging & Industrial Polymers - Ionomer

Monday, September 21, 2020

Product Description

DuPont[™] Surlyn[®] 1650 is an ionomer of ethylene acid copolymer.

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.

General Information

General				
Material Status	Commercial: Active			
Availability	 Africa & Middle East Asia Pacific	EuropeLatin America	North America	
Uses	Blown FilmCast Film	FilmSheet		
Agency Ratings	• FDA 21 CFR 177.1330(a)			
Forms	Pellets			
Processing Method	Blown FilmCast Film	CoextrusionSheet Extrusion		

ASTM & ISO Properties ¹					
Physical	Nominal Value	Unit	Test Method		
Density / Specific Gravity	0.942		ASTM D792		
Density	0.940	g/cm ³	ISO 1183		
Melt Mass-Flow Rate (190°C/2.16 kg)	1.8	g/10 min	ASTM D1238		
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.8	g/10 min	ISO 1133		
Ion Type	Zinc				
Thermal	Nominal Value	Unit	Test Method		
Vicat Softening Temperature	163	°F	ASTM D1525		
Vicat Softening Temperature	163	°F	ISO 306		
Peak Melting Temperature	207	°F	ASTM D3417		
Melting Temperature (DSC)	207	°F	ISO 3146		
Freezing Point					
	163	°F	ASTM D3417		
	163	°F	ISO 3146		

Processing Information				
Extrusion	Nominal Value	Unit		
Cylinder Zone 1 Temp.	320	°F		
Cylinder Zone 2 Temp.	410	°F		
Cylinder Zone 3 Temp.	455	°F		
Cylinder Zone 4 Temp.	455	°F		
Cylinder Zone 5 Temp.	455	°F		
Adapter Temperature	455	°F		
Melt Temperature	320 to 500	°F		
Die Temperature	455	°F		



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Extrusion Notes

Blown Film Parameters: Feed Zone: 135°C Second Zone: 160°C Third Zone: 185°C Fourth Zone: 185°C Adapter Zone: 185°C Die Zone: 185°C

Notes

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



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