

Surlyn® 1855

DuPont Packaging & Industrial Polymers - Ionomer

Monday, September 21, 2020

General Information						
General						
Material Status	Commercial: Active					
Availability	Europe	 North America 				
Features	Abrasion ResistantGood Stiffness	 High Clarity High ESCR (Stress Resist.) 	Crack C	w Temperature Heat ealability w Temperature Toughness		
Uses	FilmFood Packaging	LinersMedical Packaging	Pharmaceuticals			
Agency Ratings	• FDA 21 CFR 177.1330					
Forms	Pellets					
Processing Method	Blown Film	Cast Film	• Co	pextrusion		
ASTM & ISO Properties ¹						
Physical		Nominal Value	Unit	Test Method		
Density / Specific Gravity		0.940		ASTM D792		
Melt Mass-Flow Rate (190°C/2.16 kg)		0.90	g/10 min	ASTM D1238		
Films		Nominal Value	Unit	Test Method		
Film Thickness - Tested		2	mil			
Secant Modulus - 1% Secant, MD		23000	psi	ASTM D882		
Secant Modulus - 1% Secant, TD		22000	psi	ASTM D882		
Tensile Strength - MD (Break)		5300	psi	ASTM D882		
Tensile Strength - TD (Break)		5200	psi	ASTM D882		
Tensile Elongation - MD (Break)		350	%	ASTM D882		
Tensile Elongation - TD (Break)		350	%	ASTM D882		
Dart Drop Impact		700	g	ASTM D1709		
Elmendorf Tear Strength - MD		38	g	ASTM D1922		
Elmendorf Tear Strength - TD		50	g	ASTM D1922		
Water Vapor Transmission		1.0	g/100 in²/24 hr	ASTM E96		
Thermal		Nominal Value	Unit	Test Method		
Vicat Softening Temperature		144	°F	ASTM D1525		
Melting Temperature		190	°F			
Optical		Nominal Value	Unit	Test Method		
Haze		4.50	%	ASTM D1003		
Additional Information						
Ion Type: Zinc						

Processing Information				
Extrusion	Nominal Value Unit			
Cylinder Zone 1 Temp.	300 °F			
Cylinder Zone 2 Temp.	350 °F			
Cylinder Zone 3 Temp.	400 °F			
Cylinder Zone 4 Temp.	400 °F			
Cylinder Zone 5 Temp.	400 °F			
Melt Temperature	400 to 440 °F			

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Extrusion

Die Temperature

Nominal Value Unit

400 °F

Notes

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



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