

Surlyn® 1855

Ionomer

DuPont Packaging & Industrial Polymers

Message:

Surlyn® 1855 is an ionomer (Ionomer) material. This product is available in North America or Europe. The processing methods are: blown film, co-extrusion or cast film.

Surlyn®The main features of the 1855 are:

High resistance to environmental stress fracture (ESCR)

Good stiffness

Good sealing performance

Good toughness

Wear-resistant

Typical application areas include:

medical/health care

bag/lining

packing

Movie

food contact applications

General Information			
Features	Low temperature heat sealability		
	Low Temperature Flexibility		
	Rigid, good		
	High ESCR (Stress Cracking Resistance)		
	Good wear resistance		
	Definition, high		
Uses	Films		
	Lining		
	Food packaging		
	Drug		
	Medical packaging		
Agency Ratings	FDA 21 CFR 177.1330		
Forms	Particle		
Processing Method	Blow film		
	Co-extrusion molding		
	cast film		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.938	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.90	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	51	µm	

secant modulus			ASTM D882
1% secant, MD	159	MPa	ASTM D882
1% secant, TD	152	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Fracture	36.5	MPa	ASTM D882
TD: Fracture	35.9	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Fracture	350	%	ASTM D882
TD: Fracture	350	%	ASTM D882
Dart Drop Impact	700	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD	38	g	ASTM D1922
TD	50	g	ASTM D1922
Water Vapor Transmission	16	g/m ² /24 hr	ASTM E96
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	62.2	°C	ASTM D1525
Melting Temperature	87.8	°C	
Optical	Nominal Value	Unit	Test Method
Haze	4.5	%	ASTM D1003
Additional Information			
Ion Type: Zinc			
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	149	°C	
Cylinder Zone 2 Temp.	177	°C	
Cylinder Zone 3 Temp.	204	°C	
Cylinder Zone 4 Temp.	204	°C	
Cylinder Zone 5 Temp.	204	°C	
Melt Temperature	204 - 227	°C	
Die Temperature	204	°C	

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