

DuPont Surlyn® 1650SB

Category : Polymer , Film , Thermoplastic , Ethylene Methyl Acrylate

Material Notes:

DuPont™ Surlyn® 1650SB is available for use in conventional blown and cast film extrusion and coextrusion equipment designed to process polyethylene resins. Slip and antiblock agents are added to reduce the film coefficient of friction and prevent film roll locking.

Applications: Meat, poultry, seafood, and cheese packaging Cereal liners Medical/pharmaceutical packaging Powdered/granular food and non-food pouches Edible oil, motor oil, and other liquid product pouches Snack structures Coextrusions with nylon or in other film structures as a heat seal Information provided by DuPont™

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Surlyn-1650SB.php

Physical Properties	Metric	English	Comments
Melt Flow	1.6 g/10 min	1.6 g/10 min	ASTM D1238, ISO 1133
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	35.20 MPa	5105 psi	MD; ASTM D882
	42.1 MPa	6110 psi	TD; ASTM D882
Elongation at Break	350 %	350 %	MD; ASTM D882
	350 %	350 %	TD; ASTM D882
Impact	27	27	J/mm, Spencer Impact; ASTM D3420
Elmendorf Tear Strength, MD	13.9 g/micron	353 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	15.1 g/micron	384 g/mil	
Dart Drop	9.80 g/micron	249 g/mil	ASTM D1709
1% Secant Modulus, MD	255 MPa	37000 psi	ASTM D882
1% Secant Modulus, TD	241 MPa	35000 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Melting Point	72.0 °C	162 °F	Freezing Point; ASTM D3418
	96.0 °C	205 °F	ASTM D3417- ISO 3146
Vicat Softening Point	73.0 °C	163 °F	ASTM D1525, ISO 306

Optical Properties	Metric	English	Comments
Haze	10.5 %	10.5 %	ASTM D1003
Gloss	20 %	20 %	20°; ASTM D2457

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	149 °C	300 °F	
Middle Barrel Temperature	191 °C	376 °F	
Front Barrel Temperature	191 °C	376 °F	
Die Temperature	191 °C	375 °F	

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