

Dow Saran® 18L Clear Plastic Barrier Film

Category : Polymer , Film , Thermoplastic , PVDC

Material Notes:

Saran™ 18L is a clear biaxially oriented monolayer barrier film, preshrunk for lamination applications. It is available in 75 gauge, as single or double wound rolls. Information provided by Dow

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-Saran-18L-Clear-Plastic-Barrier-Film.php

Physical Properties	Metric	English	Comments
Water Vapor Transmission	7.20 g/m ² /day	0.464 g/100 in ² /day	at 100°F, 90% RH; ASTM F1249-90
Oxygen Transmission	0.472 cc-mm/m ² -24hr-atm	1.20 cc-mil/100 in ² -24hr-atm	10% RH; ASTM D3985
Thickness	19.0 microns	0.750 mil	

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	80 %	80 %	ASTM D882
Film Elongation at Break, TD	50 %	50 %	ASTM D882
Secant Modulus, MD	0.6619 GPa	96.00 ksi	2% Secant; ASTM D882
Secant Modulus, TD	0.5929 GPa	86.00 ksi	2% Secant; ASTM D882
Coefficient of Friction, Dynamic	0.20	0.20	Film to Metal; ASTM D1894
Film Tensile Strength at Break, MD	96.5 MPa	14000 psi	ASTM D882
Film Tensile Strength at Break, TD	138 MPa	20000 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Shrinkage, MD	8.0 %	8.0 %	Unrestrained, 100°C Air; ASTM D1204
Shrinkage, TD	4.0 %	4.0 %	Unrestrained, 100°C Air; ASTM D1204

Optical Properties	Metric	English	Comments
Haze	5.0 %	5.0 %	ASTM D1003
Gloss	100 %	100 %	45°; ASTM D2457
Transmission, Visible	60 %	60 %	Clarity; ASTM D1746

Descriptive Properties	Value	Comments
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Yield in 3/1h
Descriptive Properties

21700
Value

Calculated
Comments

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