

## Honeywell Capran® Nylon Film, Multipurpose Nylon 6 Film

Category : Polymer , Film , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Film Grade

### Material Notes:

Description: Capran® is a multipurpose nylon 6 film. Its physical properties are evenly distributed for optimum performance giving excellent resistance to flex cracking. It can be processed over a wide temperature range and exhibits outstanding abrasion resistance.

Applications: Capran® Nylon Film is used in food packaging applications. Information provided by Honeywell.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Honeywell-Capran-Nylon-Film-Multipurpose-Nylon-6-Film.php](http://www.lookpolymers.com/polymer_Honeywell-Capran-Nylon-Film-Multipurpose-Nylon-6-Film.php)

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0410 lb/in <sup>3</sup>	Yield Density
Water Vapor Transmission	403 g/m <sup>2</sup> /day	26.0 g/100 in <sup>2</sup> /day	100°F / 100%RH); ASTM F1249
Oxygen Transmission Rate	46.0 cc/m <sup>2</sup> /day	2.96 cc/100 in <sup>2</sup> /day	77°F / 0% / RH; ASTM D3985
Thickness	25.4 microns	1.00 mil	
Surface Tension	>= 50 dynes/cm	>= 50 dynes/cm	untreated side; ASTM D2578
	>= 56 dynes/cm	>= 56 dynes/cm	treated side; ASTM D2578

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	37.9 - 51.0 MPa	5500 - 7400 psi	ASTM D882
Film Tensile Strength at Yield, TD	37.2 - 50.3 MPa	5400 - 7300 psi	ASTM D882
Film Elongation at Break, MD	310 - 410 %	310 - 410 %	ASTM D882
Film Elongation at Break, TD	340 - 430 %	340 - 430 %	ASTM D882
Secant Modulus, MD	0.676 - 1.207 GPa	98.0 - 175.1 ksi	ASTM D882
Secant Modulus, TD	0.724 - 1.275 GPa	105 - 184.9 ksi	ASTM D882
Coefficient of Friction	0.19 - 0.49	0.19 - 0.49	film to stainless steel; ASTM D1894
	0.55 - 0.95	0.55 - 0.95	film to film; ASTM D1894
Tear Strength Test	650 - 900	650 - 900	graves tear MD, grams/mil; ASTM D1004
	630 - 930	630 - 930	graves tear TD, grams/mil; ASTM D1004
Elmendorf Tear Strength, MD	0.394 - 1.97 g/micron	10.0 - 50.0 g/mil	
Elmendorf Tear Strength, TD	1.57 - 3.94 g/micron	40.0 - 100 g/mil	ASTM D1922

<b>Film Tensile Strength at Break, MD Mechanical Properties</b>	<b>97.9 - 141 MPa Metric</b>	<b>14200 - 20500 psi English</b>	<b>ASTM D882 Comments</b>
Film Tensile Strength at Break, TD	82.7 - 124 MPa	12000 - 18000 psi	ASTM D882

<b>Thermal Properties</b>	<b>Metric</b>	<b>English</b>	<b>Comments</b>
Shrinkage, MD	<= 3.0 %	<= 3.0 %	300Â°F / 149Â°C - 10 minutes; ASTM D1204
Shrinkage, TD	<= 3.0 %	<= 3.0 %	300Â°F / 149Â°C - 10 minutes; ASTM D1204

<b>Optical Properties</b>	<b>Metric</b>	<b>English</b>	<b>Comments</b>
Haze	<= 10 %	<= 10 %	ASTM D1003

## Contact Songhan Plastic Technology Co.,Ltd.

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