

Honeywell Capran® K Coated Nylon Film (discontinued **)

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

Material Notes:

Description: Capran® K is a PVdc coated nylon 6 film designed for food packaging applications where longer shelf life is required. This film exhibits good clarity, gloss, toughness, thermoformability, and abrasion resistance. Information provided by Honeywell.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Honeywell-Capran-K-Coated-Nylon-Film-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.38 g/cc	0.0500 lb/in³	Yield Density
Water Vapor Transmission	9.30 - 12.4 g/m²/day	0.599 - 0.799 g/100 in²/day	100°F / 100%RH); ASTM F1249
Oxygen Transmission Rate	6.20 - 14.0 cc/m²/day	0.399 - 0.902 cc/100 in²/day	77°F / 0% / RH; ASTM D3985
Thickness	25.4 microns	1.00 mil	
Surface Tension	>= 50 dynes/cm	>= 50 dynes/cm	Corona Treatment, uncoated 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
Film Tensile Strength at Break, MD	97.9 - 141 MPa	14200 - 20500 psi	ASTM D882

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

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

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