

Honeywell Capran® Unidraw (1.00 mil) Nylon 6 Film (discontinued **)

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

Material Notes:

Description: Capran® Unidraw is a 1.00 mil (25 micron) machine direction oriented nylon 6 film specifically designed for the continuous process lamination of glass fiber reinforced panel. High strength in the machine direction allows for faster, more reliable production with fewer machine tears. It releases well from cured panels whether they are hot, cold, wet or dry. Information provided by Honeywell.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Honeywell-Capran-Unidraw-100-mil-Nylon-6-Film-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0410 lb/in ³	Yield Density
Thickness	25.4 microns	1.00 mil	

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	60 - 80 %	60 - 80 %	ASTM D882
Film Elongation at Break, TD	400 - 475 %	400 - 475 %	ASTM D882
Secant Modulus, MD	1.896 - 2.758 GPa	275.0 - 400.0 ksi	ASTM D882
Secant Modulus, TD	1.896 - 2.758 GPa	275.0 - 400.0 ksi	ASTM D882
Coefficient of Friction	0.40 - 0.70	0.40 - 0.70	film to stainless steel; ASTM D1894
	0.70 - 1.2	0.70 - 1.2	film to film; ASTM D1894
Tear Strength Test	1200 - 1500	1200 - 1500	graves tear MD, grams/mil; ASTM D1004
	1200 - 1600	1200 - 1600	graves tear TD, grams/mil; ASTM D1004
Elmendorf Tear Strength, MD	1.18 - 3.15 g/micron	30.0 - 80.0 g/mil	
Elmendorf Tear Strength, TD	5.91 - 7.87 g/micron	150 - 200 g/mil	ASTM D1922
Film Tensile Strength at Break, MD	290 - 359 MPa	42000 - 52000 psi	ASTM D882
Film Tensile Strength at Break, TD	96.5 - 117 MPa	14000 - 17000 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Shrinkage, MD	8.0 - 15 %	8.0 - 15 %	400°F / 201°C - 5 min.; ASTM D1204
Shrinkage, TD	1.0 - 2.5 %	1.0 - 2.5 %	400°F / 201°C - 5 min.; ASTM D1204

Optical Properties	Metric	English	Comments
Haze	<= 5.0 %	<= 5.0 %	ASTM D1003
Gloss	80 - 100 %	80 - 100 %	at 45°

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