

## Honeywell ACLAR<sup>®</sup> UltRx 2000 CTFE Homopolymer, Barrier Film

Category : Polymer , Film , Thermoplastic , Fluoropolymer , Polychlorotrifluoroethylene (PCTFE); Molded

### Material Notes:

Description: ACLAR<sup>®</sup> UltRx 2000 is a 2 mil CTFE homopolymer high performance barrier film for the pharmaceutical and medical markets. It thermoforms well on conventional blister packaging equipment. Information provided by Honeywell.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Honeywell-ACLAR-UltRx-2000-CTFE-Homopolymer-Barrier-Film.php](http://www.lookpolymers.com/polymer_Honeywell-ACLAR-UltRx-2000-CTFE-Homopolymer-Barrier-Film.php)

Physical Properties	Metric	English	Comments
Specific Gravity	2.11 g/cc	2.11 g/cc	ASTM D1505
Density	2.13 g/cc	0.0770 lb/in <sup>3</sup>	Yield Density
Water Vapor Transmission	0.0190 g/m <sup>2</sup> /day	0.00122 g/100 in <sup>2</sup> /day	77 <sup>°</sup> F (25 <sup>°</sup> C) / 60%RH; ASTM F1249
	0.0290 g/m <sup>2</sup> /day	0.00187 g/100 in <sup>2</sup> /day	86 <sup>°</sup> F (30 <sup>°</sup> C) / 65% RH; ASTM F1249
	0.0390 g/m <sup>2</sup> /day	0.00251 g/100 in <sup>2</sup> /day	86 <sup>°</sup> F (30 <sup>°</sup> C) / 60%RH; ASTM F1249
	0.102 g/m <sup>2</sup> /day	0.00657 g/100 in <sup>2</sup> /day	100 <sup>°</sup> F (37.8 <sup>°</sup> C) / 100%RH; ASTM F1249
	0.119 g/m <sup>2</sup> /day	0.00766 g/100 in <sup>2</sup> /day	104 <sup>°</sup> F (40 <sup>°</sup> C) / 75%RH; ASTM F1249
Thickness	50.8 microns	2.00 mil	
Surface Tension	>= 42 dynes/cm	>= 42 dynes/cm	treated side; ASTM D2578

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	150 - 200 %	150 - 200 %	ASTM D882
Film Elongation at Break, TD	175 - 250 %	175 - 250 %	ASTM D882
Secant Modulus, MD	1.172 - 1.38 GPa	170.0 - 200 ksi	ASTM D882
Secant Modulus, TD	1.172 - 1.38 GPa	170.0 - 200 ksi	ASTM D882
Film Tensile Strength at Break, MD	48.3 - 68.9 MPa	7000 - 10000 psi	ASTM D882
Film Tensile Strength at Break, TD	31.0 - 51.7 MPa	4500 - 7500 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Melting Point	211 <sup>°</sup> C	412 <sup>°</sup> F	crystalline melting point; ASTM D4591

Thermal Properties	Metric	English	Comments
Shrinkage, TD	<= -6.0 %	<= -6.0 %	19Â°C - 10 min.; ASTM D1204 300Â°F / 149Â°C - 10 min.; ASTM D1204

Optical Properties	Metric	English	Comments
Haze	<= 1.0 %	<= 1.0 %	ASTM D1003

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