

# ACLAR® UltRx 3000

Polychlorotrifluoroethylene  
Honeywell

Message:

Aclar UltRx 3000 is a 3.00 mil CTFE homopolymer high performance barrier film for the pharmaceutical and medical markets. It thermoforms well on conventional blister packaging equipment and provides the best barrier of any clear film.

General Information			
Features	Homopolymer		
	Barrier resin		
Uses	Packaging		
	Films		
	Medical/nursing supplies		
Forms	Particle		
Processing Method	cast film		
	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Density	2.11	g/cm <sup>3</sup>	ASTM D1505
Films	Nominal Value	Unit	Test Method
secant modulus			ASTM D882
MD : 100 µm	1170	MPa	ASTM D882
TD : 100 µm	1170	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 100 µm	51.7	MPa	ASTM D882
TD: Yield, 100 µm	39.3	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Yield, 100 µm	200	%	ASTM D882
TD: Yield, 100 µm	250	%	ASTM D882
Water Vapor Transmission Rate			ASTM F1249
76 µm, 40°C, 75% RH	0.077	g · mm/m <sup>2</sup> /atm/24 hr	ASTM F1249
76 µm, 38°C, 100% RH	0.090	g · mm/m <sup>2</sup> /atm/24 hr	ASTM F1249
76 µm, 25°C, 60% RH	0.016	g · mm/m <sup>2</sup> /atm/24 hr	ASTM F1249
76 µm, 30°C, 60% RH	0.023	g · mm/m <sup>2</sup> /atm/24 hr	ASTM F1249
Thermal	Nominal Value	Unit	Test Method
Peak Crystallization Temperature (DSC)	211	°C	ASTM D3418
Optical	Nominal Value	Unit	Test Method
Haze (102 µm)	< 1.0	%	ASTM D1003

#### Additional Information

Yield, No Standard: 6.23 m<sup>2</sup>/kgTensile Strength @ Yld, ASTM D882, MD, 4 mil: 6000 to 9000 psiTensile Strength @ Yld, ASTM D882, TD, 4 mil: 4500 to 7500 psiTensile Elongation @ Yield, ASTM D882, MD, 4 mil: 150 to 250%Tensile Elongation @ Yield, ASTM D882, TD, 4 mil: 200 to 300%Secant Modulus, ASTM D882, 4 mil, MD & TD: 160000 to 200000Tear Strength, ASTM D1004, Graves MD: 325 to 375 g/milTear Strength, ASTM D1004, Graves TD: 275 to 325 g/milCrystalline Melting Point, ASTM D4591: 211 °CDimensional Stability, ASTM D1204, MD: +5 to +10 %Dimensional Stability, ASTM D1204, TD: -5 to -10 %

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