

ACLAR® UltRx 4000 film

Polychlorotrifluoroethylene
Honeywell

Message:

Aclar UltRx 4000 film is a 4.00 mil PCTFE homopolymer, high performance barrier film for the pharmaceutical and medical industries. It thermoforms well on conventional blister packaging equipment and provides the highest barrier of any clear film.

General Information	
Features	Homopolymer
	Barrier resin
Uses	Packaging
	Films
	Medical/nursing supplies
Agency Ratings	DMF 1578
	FDA 21 CFR 177.1380
	USP Class VI
	European 2002/72/EC
Forms	Particle
Processing Method	cast film
	Thermoforming

Physical	Nominal Value	Unit	Test Method
Density	2.11	g/cm ³	ASTM D1505
Films	Nominal Value	Unit	Test Method
secant modulus			ASTM D882
MD : 100 µm	1240	MPa	ASTM D882
TD : 100 µm	1240	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 100 µm	51.7	MPa	ASTM D882
TD: Yield, 100 µm	37.9	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Yield, 100 µm	190	%	ASTM D882
TD: Yield, 100 µm	200	%	ASTM D882
Water Vapor Transmission Rate			ASTM F1249
100 µm, 40°C, 75% RH	0.048	g · mm/m ² /atm/24 hr	ASTM F1249
100 µm, 38°C, 100% RH	4.2E-3	g · mm/m ² /atm/24 hr	ASTM F1249
100 µm, 25°C, 60% RH	9.3E-3	g · mm/m ² /atm/24 hr	ASTM F1249

100 μm , 30°C, 60% RH	0.016	$\text{g} \cdot \text{mm}/\text{m}^2/\text{atm}/24 \text{ hr}$	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: 4.67 m^2/kg Tensile Strength @ Yld, ASTM D882, MD, 4 mil: 6000 to 9000 psi Tensile Strength @ Yld, ASTM D882, TD, 4 mil: 4000 to 7000 psi Tensile Elongation @ Yield, ASTM D882, MD, 4 mil: 150 to 225% Tensile Elongation @ Yield, ASTM D882, TD, 4 mil: 175 to 225% Secant Modulus, ASTM D882, 4 mil, MD & TD: 160000 to 200000 Crystalline Melting Point, ASTM D4591: 211 °C Dimensional Stability, ASTM D1204, MD & TD: $\neq$ 42 dynes/cm

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