

Honeywell ACLAR® 22A (1.50 mil) Copolymer Film (discontinued **)

Category : Polymer , Film , Thermoplastic , Fluoropolymer

Material Notes:

Description: ACLAR® 22A is a copolymer film consisting primarily of chlorotrifluoroethylene (CTFE). It is a flexible transparent film used to package moisture sensitive products. Information provided by Honeywell.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Honeywell-ACLAR-22A-150-mil-Copolymer-Film-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	2.08 g/cc	2.08 g/cc	ASTM D1505
Density	2.08 g/cc	0.0750 lb/in ³	Yield Density
Water Vapor Transmission	0.340 g/m ² /day	0.0219 g/100 in ² /day	100°F (37.8°C) / 100%RH; ASTM F1249
Thickness	38.1 microns	1.50 mil	

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	115 - 225 %	115 - 225 %	ASTM D882
Film Elongation at Break, TD	200 - 300 %	200 - 300 %	ASTM D882
Secant Modulus, MD	0.965 - 1.103 GPa	140 - 160.0 ksi	ASTM D882
Secant Modulus, TD	1.034 - 1.103 GPa	150.0 - 160.0 ksi	ASTM D882
Tear Strength Test	250 - 325	250 - 325	graves tear TD, grams/mil; ASTM D1004
	325 - 350	325 - 350	graves tear MD, grams/mil; ASTM D1004
Film Tensile Strength at Break, MD	51.7 - 75.8 MPa	7500 - 11000 psi	ASTM D882
Film Tensile Strength at Break, TD	34.5 - 55.2 MPa	5000 - 8000 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.222 W/m-K	1.54 BTU-in/hr-ft ² -°F	
Melting Point	190 °C	374 °F	crystalline melting point; ASTM D4591
Oxygen Index	100 %	100 %	ASTM D2863
Shrinkage, MD	12 - 15 %	12 - 15 %	300°F / 149°C - 10 min.; ASTM D1204
Shrinkage, TD	-15.0 - -12.0 %	-15.0 - -12.0 %	300°F / 149°C - 10 min.; ASTM D1204

Optical Properties	Metric	English	Comments
Haze	<= 1.0 %	<= 1.0 %	ASTM D1003
Transmission, Visible	90 %	90 %	transparent; thickness not quantified

Descriptive Properties	Value	Comments
Flammability	non flammable	

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