

Honeywell ACLAR® 22C (3.00 mil) Copolymer Film (discontinued **)

Category : Polymer , Film , Thermoplastic , Fluoropolymer

Material Notes:

Description: ACLAR® 22C is a copolymer film consisting primarily of chlorotrifluoroethylene (CTFE). It has moisture barrier and is used for electroluminescent lamps. Information provided by Honeywell.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Honeywell-ACLAR-22C-300-mil-Copolymer-Film-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	2.09 g/cc	2.09 g/cc	ASTM D1505
Density	2.08 g/cc	0.0750 lb/in ³	Yield Density
Water Vapor Transmission	0.170 g/m ² /day	0.0109 g/100 in ² /day	100°F (37.8°C) / 100%RH; ASTM F1249
Thickness	76.2 microns	3.00 mil	

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	150 - 225 %	150 - 225 %	ASTM D882
Film Elongation at Break, TD	200 - 250 %	200 - 250 %	ASTM D882
Secant Modulus, MD	0.862 - 1.207 GPa	125 - 175.1 ksi	ASTM D882
Secant Modulus, TD	0.862 - 1.207 GPa	125 - 175.1 ksi	ASTM D882
Tear Strength Test	250 - 325	250 - 325	graves tear TD, grams/mil; ASTM D1004
	300 - 350	300 - 350	graves tear MD, grams/mil; ASTM D1004
Film Tensile Strength at Break, MD	55.2 - 68.9 MPa	8000 - 10000 psi	ASTM D882
Film Tensile Strength at Break, TD	34.5 - 48.3 MPa	5000 - 7000 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	3.0 - 8.0 %	3.0 - 8.0 %	300°F / 149°C - 10 min.; ASTM D1204
Shrinkage, TD	-8.00 - -3.00 %	-8.00 - -3.00 %	300°F / 149°C - 10 min.; ASTM D1204

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

Descriptive Properties	Value	Comments
Flammability	non flammable	

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