

Honeywell ACLAR® 22C (5.00 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-500-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	0.100 g/m ² /day	0.00644 g/100 in ² /day	100°F (37.8°C) / 100%RH; ASTM F1249
Thickness	127 microns	5.00 mil	

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	150 - 250 %	150 - 250 %	ASTM D882
Film Elongation at Break, TD	150 - 250 %	150 - 250 %	ASTM D882
Secant Modulus, MD	1.241 - 1.517 GPa	180.0 - 220.0 ksi	ASTM D882
Secant Modulus, TD	1.172 - 1.379 GPa	170.0 - 200.0 ksi	ASTM D882
Tear Strength Test	300 - 350	300 - 350	graves tear TD, grams/mil; ASTM D1004
	325 - 375	325 - 375	graves tear MD, grams/mil; ASTM D1004
Film Tensile Strength at Break, MD	41.4 - 55.2 MPa	6000 - 8000 psi	ASTM D882
Film Tensile Strength at Break, TD	27.6 - 41.4 MPa	4000 - 6000 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 %	<= 3.0 %	300°F / 149°C - 10 min.; ASTM D1204
Shrinkage, TD	<= 3.0 %	<= 3.0 %	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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