

Honeywell ACLAR® 11A (3.00 mil) CTFE Homopolymer, Barrier Film (discontinued **)

Category : Polymer , Film , Thermoplastic , Fluoropolymer , Polychlorotrifluoroethylene (PCTFE); Molded

Material Notes:

Description: ACLAR® 11A is a CTFE homopolymer, high performance barrier film for industrial and electronics applications. Information provided by Honeywell.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Honeywell-ACLAR-11A-300-mil-CTFE-Homopolymer-Barrier-Film-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	2.11 g/cc	2.11 g/cc	ASTM D1505
Density	2.10 g/cc	0.0760 lb/in ³	Yield Density
Water Vapor Transmission	0.0900 g/m ² /day	0.00580 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 - 250 %	150 - 250 %	ASTM D882
Film Elongation at Break, TD	200 - 300 %	200 - 300 %	ASTM D882
Secant Modulus, MD	1.034 - 1.31 GPa	150.0 - 190 ksi	ASTM D882
Secant Modulus, TD	1.034 - 1.31 GPa	150.0 - 190 ksi	ASTM D882
Tear Strength Test	275 - 325	275 - 325	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 - 62.1 MPa	6000 - 9000 psi	ASTM D882
Film Tensile Strength at Break, TD	31.0 - 51.7 MPa	4500 - 7500 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.209 W/m-K	1.45 BTU-in/hr-ft ² -°F	
Melting Point	211 °C	412 °F	crystalline melting point; ASTM D4591
Oxygen Index	100 %	100 %	ASTM D2863
Shrinkage, MD	5.0 - 10 %	5.0 - 10 %	300°F / 149°C - 10 min.; ASTM D1204

Shrinkage TD Thermal Properties	-10.0 - -5.00 % Metric	-10.0 - -5.00 % English	300°F / 149°C - 10 min.; ASTM D1204 Comments
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Optical Properties	Metric	English	Comments
Haze	<= 1.0 %	<= 1.0 %	ASTM D1003

Descriptive Properties	Value	Comments
Flammability	non flammable	

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