

Honeywell ACLAR® 11A (4.00 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-400-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	2.13 g/cc	0.0770 lb/in ³	Yield Density
Water Vapor Transmission	0.0600 g/m ² /day	0.00386 g/100 in ² /day	100°F (37.8°C) / 100%RH; ASTM F1249
Thickness	102 microns	4.00 mil	

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	150 - 225 %	150 - 225 %	ASTM D882
Film Elongation at Break, TD	175 - 250 %	175 - 250 %	ASTM D882
Secant Modulus, MD	1.207 - 1.551 GPa	175.1 - 225.0 ksi	ASTM D882
Secant Modulus, TD	1.207 - 1.551 GPa	175.1 - 225.0 ksi	ASTM D882
Tear Strength Test	450 - 525	450 - 525	graves tear MD, grams/mil; ASTM D1004
	450 - 525	450 - 525	graves tear TD, grams/mil; ASTM D1004
Film Tensile Strength at Break, MD	34.5 - 41.4 MPa	5000 - 6000 psi	ASTM D882
Film Tensile Strength at Break, TD	34.5 - 41.4 MPa	5000 - 6000 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	<= 2.0 %	<= 2.0 %	300°F / 149°C - 10 min.; ASTM D1204

Shrinkage, TD Thermal Properties	<= 2.0 % Metric	<= 2.0 % 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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