

Honeywell ACLAR® 11A (0.90 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-090-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	0.260 g/m ² /day	0.0167 g/100 in ² /day	100°F (37.8°C) / 100%RH; ASTM F1249
Thickness	22.9 microns	0.900 mil	

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	70 - 130 %	70 - 130 %	ASTM D882
Film Elongation at Break, TD	200 - 300 %	200 - 300 %	ASTM D882
Secant Modulus, MD	1.207 - 1.551 GPa	175.1 - 225.0 ksi	ASTM D882
Secant Modulus, TD	1.172 - 1.413 GPa	170.0 - 204.9 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	75.8 - 141 MPa	11000 - 20500 psi	ASTM D882
Film Tensile Strength at Break, TD	44.1 - 57.9 MPa	6400 - 8400 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	8.0 - 15 %	8.0 - 15 %	300°F / 149°C - 10 min.; ASTM D1204

Shrinkage, TD	-13.0 - -8.00 %	-13.0 - -8.00 %	300°F / 149°C - 10 min.; ASTM D1204
Thermal Properties	Metric	English	Comments

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

Descriptive Properties	Value	Comments
Flammability	non flammable	

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