

Honeywell ACLAR® 33C (7.80 mil) Copolymer Film (discontinued **)

Category : Polymer , Film , Thermoplastic , Fluoropolymer

Material Notes:

Description: ACLAR® 33C is a copolymer film consisting primarily of chlorotrifluoroethylene (CTFE). 33C is used for military and industrial packaging applications. Information provided by Honeywell.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Honeywell-ACLAR-33C-780-mil-Copolymer-Film-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	2.12 g/cc	2.12 g/cc	ASTM D1505
Density	2.10 g/cc	0.0760 lb/in ³	Yield Density
Water Vapor Transmission	0.0500 g/m ² /day	0.00322 g/100 in ² /day	100°F (37.8°C) / 100%RH; ASTM F1249
Thickness	198 microns	7.80 mil	

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	50 - 125 %	50 - 125 %	ASTM D882
Film Elongation at Break, TD	50 - 125 %	50 - 125 %	ASTM D882
Secant Modulus, MD	1.276 - 1.379 GPa	185.1 - 200.0 ksi	ASTM D882
Secant Modulus, TD	1.276 - 1.379 GPa	185.1 - 200.0 ksi	ASTM D882
Tear Strength Test	425 - 525	425 - 525	graves tear MD, grams/mil; ASTM D1004
	425 - 525	425 - 525	graves tear TD, grams/mil; ASTM D1004
Film Tensile Strength at Break, MD	20.7 - 31.7 MPa	3000 - 4600 psi	ASTM D882
Film Tensile Strength at Break, TD	20.7 - 27.6 MPa	3000 - 4000 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.197 W/m-K	1.36 BTU-in/hr-ft ² -°F	
Melting Point	206 °C	403 °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	<= 2.0 %	<= 2.0 %	300°F / 149°C - 10 min.; ASTM D1204

Optical Properties	Metric	English	Comments
Haze	<= 4.5 %	<= 4.5 %	ASTM D1003

Descriptive Properties	Value	Comments
Flammability	non flammable	

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