Honeywell ACLAR® 33C (2.00 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-200-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/in³	Yield Density
Water Vapor Transmission	0.140 g/m²/day	0.00902 g/100 in²/day	100°F (37.8°C) / 100%RH; ASTM F1249
Thickness	50.8 microns	2.00 mil	

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	125 - 200 %	125 - 200 %	ASTM D882
Film Elongation at Break, TD	100 - 200 %	100 - 200 %	ASTM D882
Secant Modulus, MD	1.379 - 1.551 GPa	200.0 - 225.0 ksi	ASTM D882
Secant Modulus, TD	1.31 - 1.517 GPa	190 - 220.0 ksi	ASTM D882
Tear Strength Test	375 - 475	375 - 475	graves tear TD, grams/mil; ASTM D1004
	400 - 500	400 - 500	graves tear MD, grams/mil; ASTM D1004
Film Tensile Strength at Break, MD	47.6 - 66.9 MPa	6900 - 9700 psi	ASTM D882
Film Tensile Strength at Break, TD	26.9 - 39.3 MPa	3900 - 5700 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.197 W/m-K	1.36 BTU-in/hr-ft²-°F	
Melting Point	206 °C	403 °F	crystalline melting point; ASTM D4591
Oxygen Index	100 %	100 %	ASTM D2863
Shrinkage, MD	<= 2.5 %	<= 2.5 %	300°F / 149°C - 10 min.; ASTM D1204
Shrinkage, TD	<= 2.5 %	<= 2.5 %	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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