

Honeywell ACLAR® Rx 160 CTFE Homopolymer, Barrier Film

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

Material Notes:

Description: Aclar® Rx160 is a 0.60 mil (15 micron) PCTFE homopolymer, high performance barrier film for the pharmaceutical and medical markets. It thermoforms well on conventional blister packaging equipment and offers all the benefits of Aclar® where barrier considerations are less demanding. Information provided by Honeywell.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Honeywell-ACLAR-Rx-160-CTFE-Homopolymer-Barrier-Film.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	0.0510 g/m ² /day	0.00328 g/100 in ² /day	77°F (25°C) / 60%RH; ASTM F1249
	0.0930 g/m ² /day	0.00599 g/100 in ² /day	86°F (30°C) / 60%RH; ASTM F1249
	0.0960 g/m ² /day	0.00618 g/100 in ² /day	86°F (30°C) / 65% RH; ASTM F1249
	0.330 g/m ² /day	0.0213 g/100 in ² /day	104°F (40°C) / 75%RH; ASTM F1249
	0.420 g/m ² /day	0.0270 g/100 in ² /day	100°F (37.8°C) / 100%RH; ASTM F1249
Thickness	15.2 microns	0.600 mil	
Surface Tension	>= 42 dynes/cm	>= 42 dynes/cm	treated side; ASTM D882

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	80 - 130 %	80 - 130 %	ASTM D882
Film Elongation at Break, TD	200 - 275 %	200 - 275 %	ASTM D882
Secant Modulus, MD	1.379 - 1.655 GPa	200.0 - 240.0 ksi	ASTM D882
Secant Modulus, TD	1.241 - 1.517 GPa	180.0 - 220.0 ksi	ASTM D882
Film Tensile Strength at Break, MD	75.8 - 117 MPa	11000 - 17000 psi	ASTM D882
Film Tensile Strength at Break, TD	37.9 - 48.3 MPa	5500 - 7000 psi	ASTM D882

Thermal Properties	Metric	English	Comments
			crystalline melting point; ASTM

Melting Point Thermal Properties	211 Å°C Metric	412 Å°F English	D4591 Comments
Shrinkage, MD	<= 12 %	<= 12 %	10 mins.@ 300Å°F/149Å°C; ASTM D1204
Shrinkage, TD	<= -12.0 %	<= -12.0 %	10 mins.@ 300Å°F/149Å°C; ASTM D1204

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

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