

Honeywell ACLAR[®] Rx20E CTFE Homopolymer, Barrier Film

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

Material Notes:

Description: ACLAR[®] Rx20E is a .8 mil CTFE homopolymer high performance barrier film for the pharmaceutical and medical markets. It thermoforms well on conventional blister packaging equipment. Information provided by Honeywell.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Honeywell-ACLAR-Rx20E-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	0.0370 g/m ² /day	0.00238 g/100 in ² /day	77 [°] F (25 [°] C) / 60%RH; ASTM F1249
	0.0620 g/m ² /day	0.00399 g/100 in ² /day	86 [°] F (30 [°] C) / 60%RH; ASTM F1249
	0.0690 g/m ² /day	0.00444 g/100 in ² /day	86 [°] F (30 [°] C) / 65% RH; ASTM F1249
	0.233 g/m ² /day	0.0150 g/100 in ² /day	104 [°] F (40 [°] C) / 75%RH; ASTM F1249
	0.295 g/m ² /day	0.0190 g/100 in ² /day	100 [°] F (37.8 [°] C) / 100%RH; ASTM F1249
Thickness	20.3 microns	0.800 mil	
Surface Tension	>= 42 dynes/cm	>= 42 dynes/cm	treated side; ASTM F1249

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	90 - 150 %	90 - 150 %	ASTM D882
Film Elongation at Break, TD	200 - 275 %	200 - 275 %	ASTM D882
Secant Modulus, MD	1.131 - 1.551 GPa	164.0 - 225.0 ksi	ASTM D882
Secant Modulus, TD	1.241 - 1.517 GPa	180.0 - 220.0 ksi	ASTM D882
Film Tensile Strength at Break, MD	68.9 - 110 MPa	10000 - 16000 psi	ASTM D882
Film Tensile Strength at Break, TD	41.4 - 49.6 MPa	6000 - 7200 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Melting Point	211 [°] C	412 [°] F	crystalline melting point; ASTM D4591

Thermal Properties	Metric	English	Comments
Shrinkage, TD	<= -12.0 %	<= -12.0 %	300Â°F / 149Â°C - 10 min.; ASTM D1204

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

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