

ACLAR® Rx 160

Polychlorotrifluoroethylene
Honeywell

Message:

Aclar Rx 160 is a 0.60 mil CTFE homopolymer high performance barrier film for the pharmaceutical and medical markets. It thermoforms well on conventional blister packaging equipment and offers the benefits of Aclar where barrier considerations are less demanding.

General Information	
Features	Homopolymer Barrier resin
Uses	Packaging Films Medical/nursing supplies
Forms	Particle
Processing Method	cast film Thermoforming

Physical	Nominal Value	Unit	Test Method
Density	2.11	g/cm ³	ASTM D1505
Films	Nominal Value	Unit	Test Method
secant modulus			ASTM D882
MD : 15 µm	1380	MPa	ASTM D882
TD : 15 µm	1290	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 15 µm	110	MPa	ASTM D882
TD: Yield, 15 µm	51.7	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Yield, 15 µm	100	%	ASTM D882
TD: Yield, 15 µm	250	%	ASTM D882
Water Vapor Transmission Rate			ASTM F1249
15 µm, 40°C, 75% RH	0.39	g · mm/m ² /atm/24 hr	ASTM F1249
15 µm, 38°C, 100% RH	0.42	g · mm/m ² /atm/24 hr	ASTM F1249
15 µm, 25°C, 60% RH	0.051	g · mm/m ² /atm/24 hr	ASTM F1249
15 µm, 30°C, 60% RH	0.093	g · mm/m ² /atm/24 hr	ASTM F1249
Thermal	Nominal Value	Unit	Test Method
Peak Crystallization Temperature (DSC)	211	°C	ASTM D3418
Optical	Nominal Value	Unit	Test Method
Haze (15.2 µm)	< 1.0	%	ASTM D1003

Additional Information

Yield, No Standard: 31.14 m²/kgTensile Strength @ Yld, ASTM D882, MD, 0.6 mil: 12000 to 20000 psiTensile Strength @ Yld, ASTM D882, TD, 0.6 mil: 6000 to 9000 psiTensile Elongation @ Yield, ASTM D882, MD, 0.6 mil: 70 to 130%Tensile Elongation @ Yield, ASTM D882, TD, 0.6 mil: 200 to 300%Secant Modulus, ASTM D882, 0.6 mil, MD: 175000 to 225000Secant Modulus, ASTM D882, 0.6 mil, TD: 170000 to 205000Tear Strength, ASTM D1004, Graves MD: 350 to 400 g/milTear Strength, ASTM D1004, Graves TD: 275 to 325 g/milCrystalline Melting Point, ASTM D4591: 211 °CDimensional Stability, ASTM D1204, MD: +8 to +15 %Dimensional Stability, ASTM D1204, TD: -8 to -13 %All film properties were tested as an average value.

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