

ACLAR[®] 33C (7.80 mil)

Revised 04/11/01

Description

Effective Date 10/17/00

Aclar 33C is a copolymer film consisting primarily of chlorotrifluoroethylene (CTFE). 33C 7.80 mil combines outstanding moisture barrier with excellent chemical resistance and mechanical strength. 33C is used for military and industrial packaging applications.

Properties of 7.80 mil (198μ) film at 73°F- 50% RH	Typical Value		Test Method
	English	Metric	
Specific Gravity	2.12		ASTM D1505
Yield	1,677 in ² /lb.	2.38 m ² /kg	
Haze	< 4.5 %		ASTM D1003
Crystalline Melting Point	403°F	206°C	ASTM D4591
Dimensional Stability -MD (10 mins. @ 300°F/149°C) -TD	≤ 2% ≤ 2%		ASTM D1204
Tensile Strength - MD TD	3,000 - 4,600 psi 3,000 - 4,000 psi	21 - 32 MPa 21 - 28 MPa	ASTM D882
Elongation - MD TD	50 - 125 % 50 - 125 %		ASTM D882
Modulus, secant - MD - TD	185,000 - 200,000 psi 185,000 - 200,000 psi	1276 - 1379 MPa 1276 - 1379 MPa	ASTM D882
Tear Strength, Graves - MD - TD	425 - 525 gms/mil 425 - 525 gms/mil		ASTM D1004
Water Vapor Transmission Rate @ 100°F (37.8°C) / 100%RH	0.003 gms/100in ² /day	0.05 gms/m ² /day	ASTM F1249
Thermal Conductivity		4.7 x 10 ⁻⁴ cal- cm/cm ² sec ^o -C	
Flammability	Non flammable		
Oxygen Index	100		ASTM D2863

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The values presented in this data sheet are typical values and are not to be interpreted as product specifications.

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