



AH82L Heat Stabilized

Product Information

◆ Product Description

Skyrol[®]AH82L is an optically clear, glossy film with adhesion promoting pretreatment on both sides. AH82L provides good adhesion to various inks. AH82L also provides very low heat-shrinkage (heat stabilized) and is ideal for RFID tag substrates, membrane touch switch materials and other similar applications.

◆ Typical Properties

Property	Unit	Value						Test Method
General								
Nominal Thickness	Gauge	200	300	400	500	700	1000	SKC Method
	(μm)	(50)	(75)	(100)	(125)	(175)	(250)	
Density	g/cm^3	1.4	1.4	1.4	1.4	1.4	1.4	ASTM D1505
Yield	inch^2/lb	10,000	6,600	5,000	4,000	2,800	2,000	
Mechanical								
Tensile at Strength	kpsi	MD	31	30	30	30	30	ASTM D 882
		TD	33	33	33	32	38	
Elongation at Break	%	MD	140	140	140	200	220	ASTM D 882
		TD	100	100	100	130	130	
Surface								
Friction Coefficient	Kinetic		0.43	0.43	0.43	0.43	0.43	ASTM D 1894
		Static	0.47	0.47	0.47	0.47	0.47	
Optical								
Haze	%		1.0	1.2	1.4	1.5	2.0	ASTM D 1003
Light Transmission	%		90	90	94	90	89	ASTM D 1003
Gloss	%		185	185	185	185	180	ASTM D 523
Barrier								
W.V.T.R. (100°F/90%RH)	($\alpha/100\text{in}^2 / 24 \text{ hrs}$)		0.85	0.45	0.35	0.26	0.19	ASTM F372
Electrical								
Dielectric Constant			3.0 ~ 3.25	3.0 ~ 3.25	3.0 ~ 3.25	3.0 ~ 3.25	3.0 ~ 3.25	ASTM D150 ASTM D257 ASTM D257
Volume Resistivity	(73°F) Ohm-cm		10^{17}	10^{17}	10^{17}	10^{17}	10^{17}	
Surface Resistivity	(73°F/80% RH) Ohm-sq		10^{12}	10^{12}	10^{12}	10^{12}	10^{12}	
Thermal								
Heat Shrinkage	%	MD	150°C x 30min					SKC Method
			TD	0.2	0.2	0.2	0.2	

Unit Correlation: Gauge = $\mu\text{m} \div 0.254$, psi = $\text{Kg/mm}^2 \times 1422.3$, $\text{N/mm}^2 = \text{x} \times 9.8$

SKCA-TPS-E-8

This information is the best currently available on the subject. The results should, however, only be regarded as a general guide to material properties and not as a guarantee. Some of the properties can be changed as a result of supplier's effort to improve the quality or production efficiency on the subject.

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