



SC42

Product Information

◆ Product Description

Skyrol® SC42 is widely used as a film base for capacitor or condenser applications. SC42 has excellent mechanical, thermal and electrical properties, and processes well in roll winding. SC42 has an excellent surface for pressing processes and impregnating processes.

◆ Typical Properties

Property	Unit	Value									Test Method
General											
Nominal Thickness	Gauge (μm)	14 (3.5)	18 (4.6)	19 (4.8)	22 (5.6)	24 (6.0)	25 (6.3)	27 (6.8)	32 (7.8)	48 (11.8)	SKC Method
Mechanical											
Tensile Strength	MD	28	28	28	26	26	26	26	26	26	ASTM D 882
	Kg/mm ² TD	30	30	30	30	30	30	30	30	28	
Elongation at Break	MD	110	110	110	120	120	120	120	120	130	ASTM D 882
	% TD	100	100	100	100	100	100	100	100	110	
Surface											
Friction Coefficient	μk	0.50	0.45	0.45	0.40	0.40	0.40	0.40	0.40	0.40	ASTM D 1894
	μs	0.60	0.55	0.55	0.50	0.50	0.50	0.50	0.50	0.50	
Surface Roughness	Rz	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	DIN 4768
	μm Ra	0.080	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.090	
	Rmax	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	
Thermal											
Heat Shrinkage	% MD	150 °C x 30 min									SKC Method
		2.2	2.2	2.2	2.2	2.2	2.0	2.0	2.0	2.0	
	TD	0.8	0.8	0.8	1.0	1.0	1.0	1.0	1.0	1.0	
Electrical											
Dielectric Strength	kVDC	1.5	2.0	2.1	2.4	2.6	2.7	2.8	3.2	4.8	SKC Method

* Unit Correlation : N/mm² = Kg/mm² X 9.8, psi = Kg/mm² x 1422.3

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.