

SMACTOOL® RANGE

REUSABLE SILICONE VACUUM MEMBRANE



SMACTOOL® is a high strength silicone rubber membrane for use as a reusable vacuum blanket in forming composite parts. This compound is the best choice to manufacture contoured, inflatable pressure bladders. It can be extruded into various shaped profiles or rods for use as vacuum or high pressure sealing blanket.

SMACTOOL® possesses excellent retention of physical properties after exposure to high pressure & elevated temperatures encountered in composite manufacturing autoclave cure cycles. Two versions are available: cured (C50) or uncured (UC50).

BENEFITS

- ▶ High mechanical resistance
- ▶ Shrink range : 1%
- ▶ Good flowing
- ▶ Good repositionning
- ▶ Excellent retention of physical properties after exposure to high pressures & elevated temperatures (240 °C / 464 °F)
- ▶ High resistance to thermal degradation & contact with composite
- ▶ Available thicknesses : 1.5 mm (0.059 in), 2.2 mm (0.087 in), 3.2 mm (0.126 in).
Other thicknesses on demand

DS-STL-01

FEATURES

	CURED	UNCURED
REFERENCE PER THICKNESS	C50-1.5 C50-2.2 C50-3.2	UC50-1.5 UC50-2.2 UC50-3.2
WIDTH	larg. 1300 mm 51.2 in	larg. 900 mm 35.4 in
LENGTH	10 m 32.8 ft	
CURING CONDITIONS	100 °C (212 °F) to 240 °C (464 °F) Post curing at 200 °C (392 °F) during 3 hours	
LIFE STORAGE	24 months *	12 months *
PACKAGING	Palett 1300 x 1000 mm 51.2 x 39.4 in	Cardboard box 1200 x 385 x 370 mm 47.2 x 15.2 x 14.6 in



* In original packaging between 0 °C (32 °F) and 20 °C (68 °F)

► MOQ : 1 roll

MEASURED CHARACTERISTICS	UNIT	STANDARD	C50 VALUE	UC50 VALUE **
Density	-	NF ISO 2781	1.17	1.17
Hardness	Shore A	NF ISO 48.4	55	55
Tensile strength	MPa	NF ISO 37	> 8	> 8
Elongation at break	%	NF ISO 37	> 600	> 600
Tensile stress at 300%	MPa	NF ISO 37	4.6	4.6
Tear Strength	N/mm	NF T 46-007 (A)	40	32

** After vulcanization - Properties obtained on raw material at 120 °C (248 °F) during 60 min