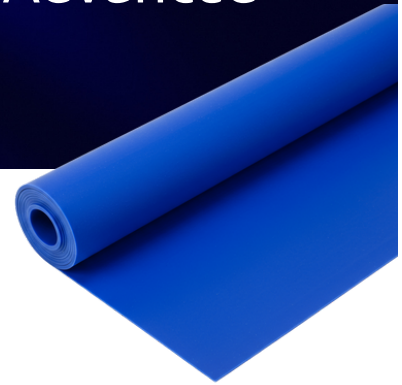


SMACTOOL®



Reusable Silicone Membrane for Advanced Composite Manufacturing

Durability • Flexibility • Efficiency



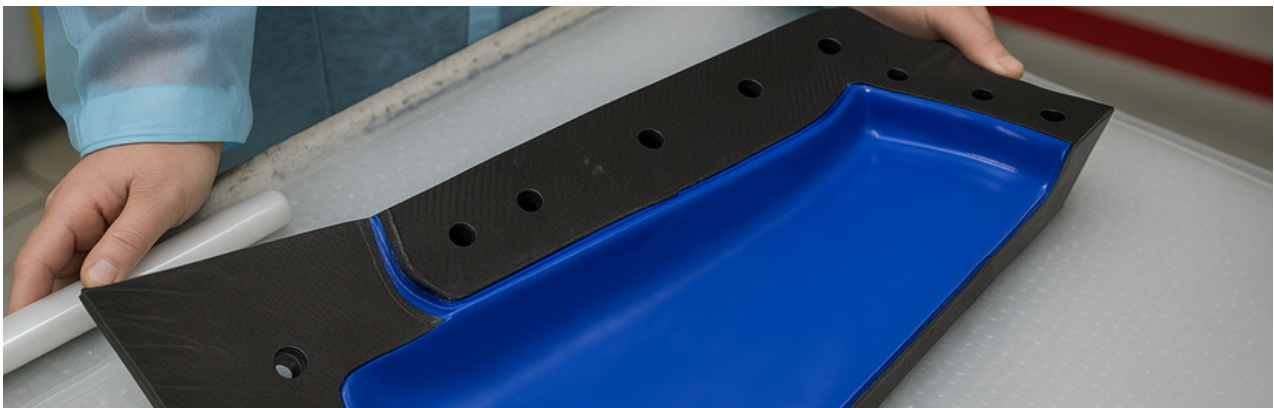
SMACTOOL® is a silicone elastomer layer used to make molding membranes and reusable bladders for composite molding. The material is made from high-grade silicone, ensuring flexibility and resilience under demanding manufacturing conditions. It operates effectively up to 240 °C (464 °F) continuously, maintaining vacuum integrity during composite molding processes.

Engineered for repeated use, it withstands multiple cycles and fits complex mold geometries and production requirements. SMACTOOL® enhances part quality and production efficiency, making it an indispensable tool for advanced composite manufacturing.

BENEFITS :

- Cured and Uncured version
- Uncured version can be formed to any shape
- High chemical & mechanical resistance
- High Temperature resistance
- Shrink rate : 1 %
- Excellent formability
- Easy repositioning
- Easy to repair, the uncured version bonds firmly to the cured version

Discover how SMACTOOL® can optimize your composite manufacturing



SMACTOOL Range

Versions	Cured	Uncured
Available thicknesses	1,5 ; 2,2 ; 3,2 mm (0.06 ; 0.09 ; 0.13 in)	1,5 ; 2,2 ; 3,2 mm (0.06 ; 0.09 ; 0.13 in)
Width	1300 mm (51.2 in)	900 mm (35.4 in)
Length	10 m (32.8 ft)	
Temperature	Used from 0 °C (32 °F) to 240 °C (454 °F)	Curing 100 °C (212 °F) to 240 °C (464 °F) Post curing at 200 °C (392 °F) Use 0 °C (32 °F) to 240 °C (464 °F)
Storage	24 months*	12 months*

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

Technical Specification

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 vulcanisation - Properties obtained on raw material at 120 °C (248 °F) during 60 minutes