

LSM50 - Silicone Rubber Sheet

◆ DESCRIPTION

LSM50 is a 51 durometer, high strength silicone rubber that could be used as a re-usable vacuum membrane. It can be used also to make inflatable bladders used in composite parts manufacturing like tubes, hollow parts. LSM50 exists in both uncured and cured stage in various thicknesses from 0.9mm to 3.5mm.

◆ DESIGNATION

LSM50U: Uncured version

LSM50C: Cured version

◆ PROPERTIES

Property	Tets Method	Units	Typical Value
Hardness	ASTM D2240	Shore 'A'	51
Density	ASTM D792	g/cm ³	1.15
Tensile Strength	ASTM D412 DIE C	MPa	10
Elongation @ Break	ASTM D412 DIE C	%	600
Tear Strength	ASTM D624 DIE B	KN/m	33
Compression Set	ASTM D395 22h à 177°C	%	45 (4 hours à 200°C)
Dielectric Strength		Kv/mm	20
Thermal Expansion		m/m°C	6.5
Colours			Grey & Translucent

◆ RECOMMENDED CURING CONDITIONS

LSM50 cures from 120°C under pressure. The higher the pressure will be the better will be the results and details on the cured membrane..

◆ STORAGE

For uncured rubber: 6 months from date of manufacture when stored at 24°C and wrapped as supplied.

For cured rubber: no limitation if stored at 24°C max in a dry and clean area.