

SAPPHIRESIL (SB)

Silicone



SILICONE SHEETING FOOD QUALITY HIGH PERFORMANCE

FEATURES

Blue food grade silicone, meeting regulation (EC) 1935/2004 (European legislation) and FDA classification (American legislation).
Volume resistivity > 10^{12} Ω .m.
Surface resistivity > 10^{13} Ω .

REGULATIONS

- † Meeting european regulations (EC) n° 1935/2004 and 2023/2006
- † The material is in compliance with FDA 21 CFR Part. 177. Indirect Food Additives: Polymers. Sec 177.2600 Rubber articles intended for repeated use for contact with aqueous food
- † IANESCO certificate (Institut français de Poitiers)
- † Tested and qualified by BNIC (Bureau National Interprofessionnel du Cognac)
- † Quality certificate available under request

APPLICATIONS

Gaskets or washers cutting and manufacturing of pieces for general industrial applications in contact with:

- foodstuffs
- water
- detergents
- diluted acids
- strong non oxidant acids

ADVANTAGES

- † Talcum-free, easier to be handled
- † Primerless adhesion
- † Very good resistance to ozone, UV light, weathering and ageing
- † Excellent temperature resistance (-60/+230°C)
- † Good ratio quality/price

BENEFITS

- † Performance
- † Legality
- † Food safety
- † Hygiene, cleanliness
- † Long life


MAINTENANCE RECOMMENDATION

Always follow manufacturer warnings and instructions when using any cleaning product.

MECHANICAL, PHYSICAL AND CHEMICAL PROPERTIES

| Measured characteristics | | Standard | Value | |
|------------------------------------|---|-----------|-----------------------|-------------------|
| MECHANICAL | | | | |
| Rubber compound - blue | | | Silicone | S6A3 |
| Density | | | 1.20 ±0.05 | g/cm ³ |
| Hardness | ASTM D2240 | | 60 ±5 | Shore A |
| Tensile strength | ISO 37 | | ≥10.0 | MPa |
| Elongation at break | ISO 37 | | ≥500 | % |
| Tear resistance | ISO 34-1 | | ≥20 | N/mm |
| Compression set after 24h at 150°C | ISO 815-1 | | ≤30 | % |
| TEMPERATURE | | | | |
| Working temperature | | | -60/+230 | °C |
| AGEING | | | | |
| Ozone resistance | | | Very good | |
| CHEMICAL RESISTANCE | | | | |
| Diluted acids and bases | Concentrated acids and bases | Ozone | Oils and hydrocarbons | |
| Good | Medium | Very good | Medium | |
| IDENTIFICATION | | | | |
| Branding | Without. | | | |
| Packaging | Thickness ≤6mm rolled on cardboard tube Ø 80mm. Thickness >6mm in roll. | | | |
| Wrapping | White polyethylene film. | | | |
| Labelling | Self-adhesive label indicating product name, dimensions, area in m ² , nominal weight, and product code to allow product traceability. | | | |

Unless typographical error, information and figures of our technical datasheet are based on our experience and laboratory tests according to international standards. This data is intended to be used as a guideline only. Material performance depends on the conditions of use and the final application.

| Silicone | SILICONE SHEETING | SAPPHIRESIL (SB) |  | | |
|-----------------|-------------------|------------------|---|----------------|--|
| THICKNESS mm | WIDTH mm | LENGTH m | WEIGHT kg/m ² | SIDES FINISH | |
| 1±0.2 | 1200±2% | 10±2% | 1.11 | 2 SMOOTH SIDES | |
| 1.5±0.25 | 1200±2% | 10±2% | 1.66 | 2 SMOOTH SIDES | |
| 2±0.3 | 1200±2% | 10±2% | 2.22 | 2 SMOOTH SIDES | |
| 3±0.3 | 1200±2% | 10±2% | 3.33 | 2 SMOOTH SIDES | |
| 4±0.4 | 1200±2% | 10±2% | 4.44 | 2 SMOOTH SIDES | |
| 5±0.4 | 1200±2% | 10±2% | 5.55 | 2 SMOOTH SIDES | |
| 6±0.5 | 1200±2% | 5±2% | 6.66 | 2 SMOOTH SIDES | |

