DIAMONDSIL (ST) Silicone

SILICONE SHEETING FOOD QUALITY HIGH PERFORMANCE

FEATURES
Transparent 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, clean surface free of dust
- Time saver for cleaning and adhesive process
- 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 - transparent		Silicone S6A0	
Density		1.20 ±0.05	g/cm³
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 m², 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	DIAMONDSIL (ST)

THICKNESS mm	WIDTH mm	LENGTH m	WEIGHT kg/m²	SIDES FINISH
1 ±0.2	1200 ± 2 %	10 ± 2 %	1.2	2 SMOOTH SIDES
1.5 ±0.25	1200 ± 2 %	10 ± 2 %	1.8	2 SMOOTH SIDES
2 ±0.3	1200 ± 2 %	10 ± 2 %	2.4	2 SMOOTH SIDES
3 ±0.3	1200 ± 2 %	10 ± 2 %	3.6	2 SMOOTH SIDES
4 ±0.4	1200 ± 2 %	10 ± 2 %	4.8	2 SMOOTH SIDES
5 ±0.4	1200 ± 2 %	10 ± 2 %	6	2 SMOOTH SIDES
6 ±0.5	1200 ± 2 %	5 ± 2 %	7.2	2 SMOOTH SIDES

TRELLEBORG