

TCS Part Numbers TCS602, TCS603, TCS605, TCS606

Technical Specification for Platinum Cured Silicone Tubing (Translucent)

Product Form

Our Platinum Cured Silicone tubing comes in translucent as a standard colour. The tubing is platinum cured so that peroxides or ketones are not produced as part of the catalysing process (which can affect taste tests).

Applications

Used for general industries and especially ideal for use in applications with repeated contact with food, drink processing as well as pharmaceutical uses. The tubing complies with FDA guidelines.

Thermal Properties

The silicone works in the temperature range of -40°C to 200°C.

Chemical Composition

The tube is made from a 2 component platinum cured translucent silicone rubber used in a 1:1 mixing ratio, suitable for extrusion.

Flammability Characteristics

The silicone will keep constant even at high temperatures, but should not be used with pressure steam. It also possesses excellent resistance to heat (dry air) at +200°C intermittently and will remain flexible at low temperatures of -70°C. Low flammability and low smoke toxicity are also characteristics of the silicone tubing.

Moisture Absorption

The range has a very low degree of moisture absorption. Mechanical properties show little change even after long periods of immersion.

Pigmentation

Available as translucent.

Environmental Resistance

The tubing is also resistant to ultra-violet light, ozone effects and weathering to an extent.

Mechanical Properties

Property	Method of Testing	Unit of Measurement	Value
Density	DIN 53 479 A	g/cm ³	1.16
Shore A Hardness	DIN 53 505		60+-5
Tensile Strength	DIN 53 504 S2	N/mm ²	10
Elongation at Break	DIN 53 504 S2	%	450
Tear Strength	ASTIM D 624 die B	N/mm ²	33
Temperature Range		deg C	-40 to +200