

Silicone Grades and Applications

- PLEASE note that all qualities can be manufactured 2-component or with metal carrier.

- Maximum dimensions with Silicone: High 80mm, Width 180mm (max. ~ 2 000g/m)

Grade	Hardness (ShA)	FDA Applicable	Temperature Range (°C)	General Applications
General purpose	20 - 90	On demand	-60 ... +200	Good general grade for various silicone products. Extremely resistant to weather and ozone. Good electrical conductivity. Available in colours according to RAL colour chart.
Flame retardant qualities: FP-G (general), FP-R (rail) and FP-M (marine) according to the required standard.	40 - 70	-	-60 ... +280	Compound for the manufacture of flame retardant profiles. Material complies with the "fire and smoke" standards BS 6853: 1999, DIN5510-2: 2009, NFF 16-101, EN45545-2: 2013, NFPA 130, IMO FTPC and UL94. Available in colours according to RAL colour chart with certain restrictions.
Flame retardant FP-U	50 - 75	-	-60 ... +280	Compound for the manufacture of flame retardant profiles. Material complies with London Underground's "fire and smoke" standards. Pigmentable with certain restrictions.
Improved tear strength	40 - 70	On demand	-60 ... +200	Tear resistance is double compared to the general grades. Available in colours according to RAL colour chart.
Extra improved tear strength (PT-catalyst)	60 [*] - 75	On demand	-60 ... +200	With PT-catalyst we are able to make extra transparent profiles. Available also in colours according to RAL colour chart. This grade has extra improved tear resistance.
Improved heat resistance	30 - 80	On demand	-60 ... +300	Excellent high temperature resistance. Retains its properties over long periods of time, even when exposed to temperature variations. Available in colours according to RAL colour chart with certain restrictions. The compound is used for e.g. seals in industrial ovens.
Improved steam resistance	60 - 70	On demand	-60 ... +280	Excellent resistance to hot air, particularly after addition of heat stabilizer. Good tear resistance and low compression set. Available in colours according to RAL colour chart. The compound is used in applications such as pressure chambers or autoclaves.
Improved low temperature resistance	55	-	-100 ... +200	Excellent resistance to cold air. Retains its properties over long periods of time, even when exposed to very low temperatures. Available in colours according to RAL colour chart.
Improved oil resistance	70	-	-60 ... +200	Good resistance to mineral oils. High elasticity and very low compression set. Only available in the colour beige.
Electrically conductive	70	-	-60 ... +250	Enhanced electrical conductivity and heat resistance. Only available in the colour black.
Tap water approved	70	-	-60 ... +200	In Germany, KTW specifies the requirements of elastomers in potable water as set out by the German Technical and Scientific Association for Gas and Water (DVGW) in the regulation "Arbeitsblatt W270". Material complies with the German standard for potable water.
PT-catalyzed grade with low coefficient of friction	60	On demand	-60 ... +200	PT-catalyzed grade with low coefficient of friction. The coefficient of friction is reduced by 50-70% compared to the normal Pt-catalyzed grades. Cured profiles show an excellent transparency and good mechanical properties. Available also in colours according to RAL colour chart.
Foam Silicone	~25	-	-60 ... +200	Grade for light-weighted profiles. Available also in colours according to RAL colour chart. Extremely resistant to weather and ozone.
Fluorosilicone	40 - 70	-	-60 ... +200	Fluorosilicone is noted for its good mechanical properties and resistance to harsh organic solvents and petroleum based fluids. It also have improved heat resistance and it is extremely resistant to weather and ozone. Available in colours according to RAL colour chart.

(* preferred hardness > 60 Sha)