

TECHNICAL DATA SHEET · REV 2026-09

Silicone raw material. Engineered forward.

Liquid silicone rubber systems for industrial tooling, gaskets and insulation; medical, skin-contact and food-grade parts; and textile printing, grip and coating. Typical properties for the 7, 6 and 3 Series families.

7 Series

INDUSTRIAL GRADE

6 Series

MEDICAL & FOOD GRADE

3 Series

TEXTILE GRADE

7 SERIES

Industrial grade

715 · 720 · 725 · 730 · 735 · 740

Heat-resistant, dimensionally stable condensation-cure silicone for mould making, tooling, seals, rollers and thermal protection. Choose by hardness and viscosity, then confirm the specific environment and process with our team.

- Tooling & moulding
- Gaskets & seals
- Electrical insulation
- Thermal protection
- Rollers & pads
- Industrial tubing
- Prototypes
- Automotive components

TYPICAL PROPERTIES

MODEL	MIX RATIO	APPEARANCE	HARDNESS	MIXED VISCOSITY	WORKING TIME	CURING TIME	TENSILE	TEAR	SHRINKAGE	ELONGATION
by weight	base:catalyst	—	Shore A	mPa·s	min @ 23°C	hrs @ 23°C	MPa	kN/m	%	%
715	100:3	Translucent / White	15±2	13,000±500	30–40	3–5	≥3.8	≥19.8	<0.2	≥500
720	100:3	Translucent / White	20±2	15,000±500	30–40	3–5	≥3.8	≥21.5	<0.2	≥500
725	100:3	White	25±2	16,000±500	30–40	3–5	≥4.2	≥28.5	<0.2	≥550
730	100:3	White	30±2	20,000±500	30–40	3–5	≥4.0	≥25.2	<0.2	≥480
735	100:3	White	35±2	20,000±500	30–40	3–5	≥4.0	≥19.5	<0.2	≥480
740	100:3	White	40±2	18,000±500	30–40	3–5	≥3.9	≥19.5	<0.2	≥300

Processing

Weigh base and catalyst accurately, mix thoroughly, then de-air under vacuum where surface finish matters. Cure at room temperature; mild heat (40–60°C) shortens demould time.

Storage

Store sealed at 5–30°C, away from tin catalysts, sulphur and amines. Typical shelf life 12 months from delivery in unopened containers.

Need a grade between two hardness points, a different colour, or a faster cure? The 7 Series can be adjusted — send us the application, process and target properties.

6 SERIES

Medical & food grade

600 → 650

High-purity platinum-cured silicone for applications that need consistency, softness and cleanliness – from ultra-soft Shore 00 cushioning to Shore A 50 parts. Skin-contact and food-contact suitability to be confirmed for the specific grade and use.

Medical tubing

Skin-contact wearables

Prosthetics

Medical seals

Food moulds

Bakeware

Sanitary valves

Personal care

TYPICAL PROPERTIES

MODEL	MIX RATIO	APPEARANCE	HARDNESS	MIXED VISCOSITY	WORKING TIME	CURING TIME	TENSILE	TEAR	SHRINKAGE	ELONGATION
by weight	base:catalyst	—	Shore A	mPa·s	min @ 23°C	hrs @ 23°C	MPa	kN/m	%	%
600	1:1	Translucent	0±2	1,700±500	30–40	3–5	≥1.8	≥3.2	<0.1	≥700
605	1:1	Translucent	5±2	4,000±500	30–40	3–5	≥2.2	≥12.5	<0.1	≥500
610	1:1	Translucent	10±2	1,300±500	30–40	3–5	≥3.8	≥13.6	<0.1	≥700
615	1:1	Translucent	15±2	1,400±500	30–40	3–5	≥3.8	≥14.2	<0.1	≥500
620	1:1	Translucent	20±2	2,000±500	30–40	3–5	≥5.1	≥21.5	<0.1	≥500
625	1:1	Translucent	25±2	2,000±500	30–40	3–5	≥5.5	≥22.0	<0.1	≥400
640	1:1	Translucent	40±2	6,000±500	30–40	3–5	≥5.8	≥19.8	<0.1	≥300
645	1:1	Translucent	45±2	8,000±500	30–40	3–5	≥6.0	≥20.2	<0.1	≥300
650	1:1	Translucent	50±2	8,000±500	30–40	3–5	≥6.0	≥13.6	<0.1	≥250

Processing

1:1 mix by weight, low viscosity for easy de-airing and fine detail. Keep tools and gloves free of condensation-cure silicone, latex and tin – platinum systems are inhibition-sensitive.

Compliance

Grade-specific documentation (food-contact / biocompatibility statements) is issued on request for the intended application. Do not assume approval across the whole family.

The 6 Series also covers Shore 00 gel and cushioning grades used for orthopaedic insoles, heel cups and soft pads. Ask for the 00-scale data sheet if that is your application.

3 SERIES

Textile grade

SOFT TOUCH · FLEXIBLE · DURABLE

Soft, flexible silicone systems for textile printing, grip, coating and high-wear finishes.

Grades are matched to the fabric, process and required finish — a published model comparison is not maintained for this family.

Raised silicone print

Anti-slip grip

Elastic tapes

Labels & branding

Protective coating

Technical textiles

Technical data on request. Share the substrate, application method (screen, rotary, coating head), cure line temperature and hand-feel target. We will recommend a system and provide the matching data sheet — no unverified values are published here.

GENERAL HANDLING — ALL FAMILIES

Mixing

Weigh accurately by the stated ratio. Mix to a uniform colour, scraping the container walls and base. De-air under vacuum for void-free parts.

Cure & demould

Room-temperature cure at 23°C; lower temperatures slow the reaction. Post-cure at 60–100°C improves final properties and reduces volatiles.

Storage

Keep sealed, cool and dry (5–30°C). Re-homogenise base before use. Typical shelf life 12 months unopened.

Platinum inhibition

6 Series platinum grades are inhibited by tin catalysts, sulphur, amines, PVC and some tapes. Test new contact materials first.

Safety

Uncured components may irritate skin and eyes. Use gloves and ventilation. Consult the SDS for each component before handling.

Support

Grade selection, sampling and route-to-production support are available. Send the application brief to start.

All figures in this document are typical values from published data and are provided for material selection only. They are not a specification and do not guarantee performance in a specific process. Final grade selection must be validated against your temperature, compliance and performance requirements.