

with hand and head



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<https://www.apraktika.hu/en/ur58630-polyurethane-elastomer-65-shore>

UR 58630/5803 Polyurethane Rubber: Technical Data Sheet

The UR 58630/5803 polyurethane resin system consists of a polyol and isocyanate components that cure at room temperature and are suitable for manual processing.

The cured UR 58630/5803 polyurethane elastomer can be used to make very flexible finished products as well as moulds.

Main properties of the hardened product:

- Easy to process
- Has a significant elongation at break
- High chemical resistance
- Solvent and mercury free,



1. Instructions for use

1. Prepare the two components (resin / base and catalyst) and mix them separately. Weigh out the amounts of polyol and isocyanate components given in the table below.
2. Keep the mixing ratio exactly. The technical properties listed below are guaranteed only this case.
3. Do not leave unmixed components on the wall of the mixing bowl.
4. Stir until the color is homogeneous. The polyurethane resin can then be cast.

Crystallization can occur with both the isocyanate and the polyol component.

In this case, i.e. if the polyol component becomes inhomogeneous and the isocyanate becomes opaque, place in a heat treatment chamber and homogenize at 60 ° C.

The system is then reusable.

Ensure the components are mixed at least 18 ° C.

2. Important Recommendations

- Observe the general health and safety regulations
- Wear protective gloves
- Ensure adequate ventilation
- Wear safety goggles and suitable safe clothing
- Surfaces in contact with the resin must be clean, dry and free from grease.
- It is recommended to heat the components above 23 °C
- The mixing ratio must not deviate from the specified maximum by 2%
- The mixing bowl must be free of moisture
- Use separator on the model
- Maintain an ambient temperature of 23 °C during curing
- 5 days of leaving at 23 °C is required to achieve maximum technical performance



3. Chemical and Physical Properties

	UR 5803 Isocyanate	UR 58630 Polyol	Mixture
Mixing ratio (weight %)	35	100	
Consistency	liquid	liquid	liquid
Coulor	amber	grey	grey
Viscosity	2000	4700	2500
Density at 25 °C g/cm ³	1,16	1,33	1,31
Working time (pot life) at 25 °C			15-20
Hardness Shore A			65/63
Tensile Strength MPa			4,8
Elongation at break %			670
Tear strength kN/mm			16,5
Operation temperature °C			-40 / 70
Glas transition temperature °C			< 0
Linear shrinkage mm/m			3,8
Maximum casting thickness (mm)			100

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The cured finished product must not be classified as dangerous in accordance with Directive 88/379 / EEC and subsequent amendments. The hazards of the components can be seen in another document.

4. Shelf Life

The F180 polyurethane resin is guaranteed for a period of 18 months if stored correctly at a temperature of between 5°- 27°C (41° - 80°F).

The advice given verbally, in writing or through demonstrations on the use of the products are based on our knowledge.

The use and application of the product by the user lie beyond the control of the company and are therefore the user's own responsibility.