

Soft integral foam, liquid

Description

RAKU® PUR 31-3194 Dunkelgrau is a liquid, two-component polyurethane system. It consists of a filled resin component A and a hardener component B (MDI). The system contains no solvents or plasticizers. It is characterized by:

- very low softness
- low water absorption
- high mechanical strength
- very short tack-free time / faster utilization
- favorable cost-effectiveness ratio
- mounting adhesion to metal surfaces
- smooth/optically attractive surface
- high sealing class

Temperature resistance

long-term	- 40 °C	to + 90 °C
short exposure		up to + 130 °C

Application

The product is used for the production of formed-in-place foam gaskets (FIPFG) and of molded foams. The hardness of the material can be adjusted to the specific application by changing the mixing ratio.

Processing

Before use, the component A must be homogenized, as additives tend to cause phase separation. The density of the material can be adjusted to the processing specification of 1.00 g/ml by adding dispersed air through stirring. The air helps to ensure a uniform foam structure. The component B is very sensitive to moisture and must not be stirred. Due to its high reaction rate, the system is usually processed by two-component mixing and dispensing machines.

Raw components data

		RAKU® PUR 31-3194 A	RAKU® PUR 31-3194 B
Viscosity	mPa*s	2,500	300
Density without air	g/ml	1.05	1.22
Density with recommended air loading	g/ml	1.00	-----
Color		dark grey	brown

measured at 20 °C

Processing data

	Unit	value
Mixing ratio A : B	Parts by weight	100 : 14,3
Processing temperature	°C	20 - 35
Cream time	sec	75
Tack free	minutes	6
Density, foamed in 30 ml beaker	g/l	325
Hardness, lab foamed in beaker	Shore 00	45

measured at 20 °C, 30 ml formulation, laboratory stirrer 1800 rpm.

Standard shipping containers

	Component A	Component B
	Contents	Contents
	kg	Kg
Container	1000	-----
Drum	200	250
Canister, internally coated	30	-----
Can	-----	30

Storage

Original containers may be stored at ambient temperature (10 °C - 35 °C) for 6 months. At temperatures below + 5 °C the hardener component B may crystallize. Since both components are affected by air moisture, containers should be kept tightly sealed.

Health and safety at work

The workplace in which the material is being used must be well ventilated. All applicable health and safety regulations governing the use of reactive resins and their hardeners must be observed. Please also observe the respective safety data sheets.