

RAKU-PUR® Foam Gaskets

Solutions for electrical housings



Application:

- » Usage of 2K-PUR-FIPFG-foam gaskets for electrical housings made of plastic or coated metal
- » Secure sealing of electrical components against water, humidity and dust (IP67)
- » Often narrow and soft sealings
- » UL 50 and EX- protection is possible

Solutions :

RAKU-PUR 31-3130

- » IP 69 (10 m deep water)
- » According to UL 94 HBF

RAKU-PUR 31-3131-1

- » Very low water absorption
- » UL 50

RAKU-PUR 31-3156

- » Low weight of foam
- » Good, spontaneous compression reset

RAKU-PUR 32-3250-28

- » Good self leveling
- » Good mechanical strength
- » Very good compression recovery



RAKU-PUR® Foam Gaskets

Physical and mechanical properties

	Test norm	Unit	RAKU-PUR 31-3130	RAKU-PUR 31-3131-1	RAKU-PUR 31-3156	RAKU-PUR 32-3250-28
Mixing ratio A : B		pbw.	5.5 : 1	5.5 : 1	6 : 1	6 : 1
Weight of the foam*	RPV DS-202	g/ml	430	380	300	480
Viscosity, $\gamma=2,5 \text{ s}^{-1}$	ISO 2884-1	mPa*s	3,000 – 4,000	5,000 – 10,000	2,500 – 5,000	100,000 – 130,000
Cream time		Sec.	30 – 40	20 – 30	30 – 40	30 – 40
Tack-free time		Min.	2 – 5	2 – 4	3 – 7	3 – 7
Hardness*	DIN 53505	Shore 00	50	50 - 55	32	40 - 45
Compression load deflection (distortion at 40%)	EN ISO 604	MPa	0.15	0.13	0.03	0.04
Tensile strength	ISO 1798	MPa	0.40	0.37	0.11	0.21
Elongation at break	ISO 1798	%	120	130	51	97
Compression set 24h (50%/70°C)	EN ISO 1856	%	3	3	4	7
Water absorption , weight increase in uncompressed condition	24h storing in 10 m deep water	%	6	6	6	44
Temperature resistance in loaded condition		°C	-40 to +90	-40 to +90	-40 to +90	-40 to +100
Special Properties			» Good self leveling » IP 69 (10 m deep water) » according to UL 94 HBF	» Good mechanical strength » Good adhesion to metal	» Low weight of the foam » Good spontaneous compression recovery	» Good mechanical strength » Very good compression recovery

* Measuring based on gasket dimensions 8 x 10 mm

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