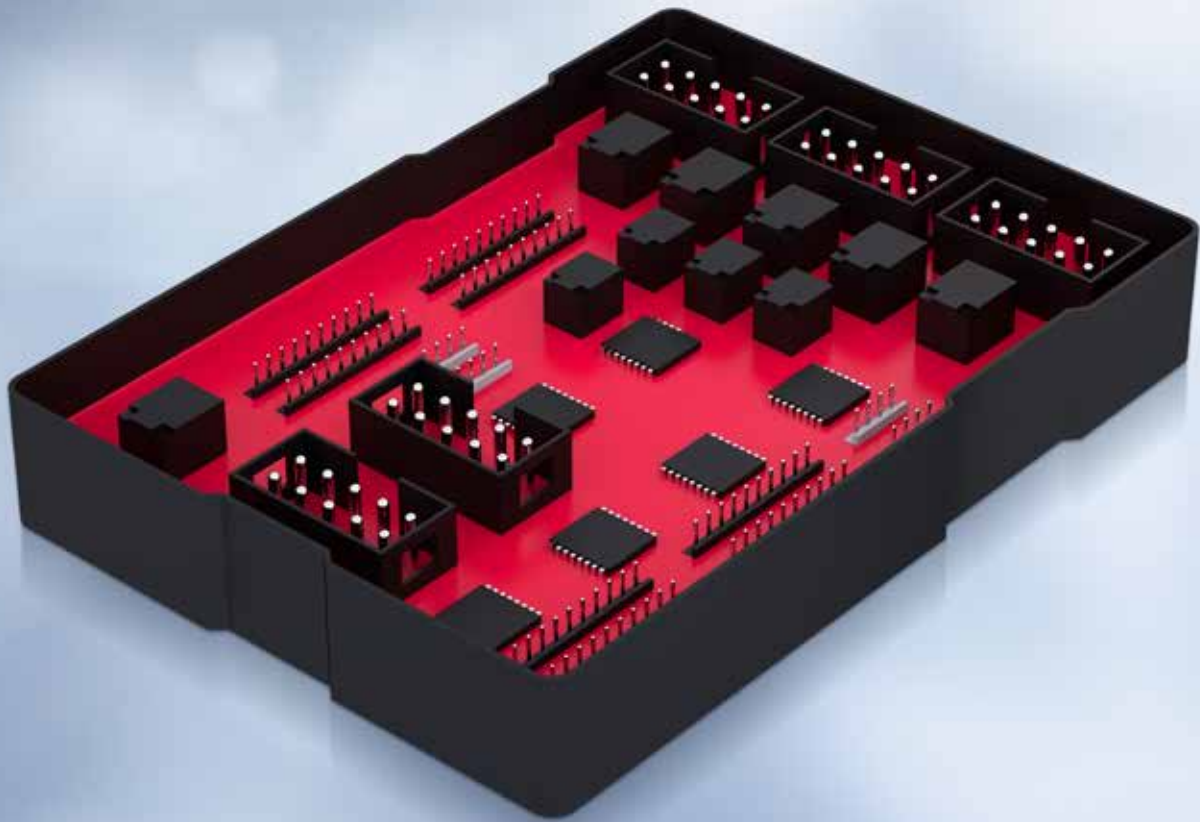




RAMPF Polyurethane Casting Resins

RAKU® PUR casting compounds reliably and efficiently protect sensitive components from chemical substances and environmental influences such as heat, cold, and moisture. The two-component systems can be used for a wide range of applications.



Benefits

- Wide Shore hardness range (20A - 90D)
- Easy adjustment of reactivity
- Low shrinkage
- Low exothermicity
- Fast processing
- High shock resistance
- Good adhesion to plastics



Typical applications

- Circuit boards
- Capacitors
- Inverters
- Sensors
- Inductors
- EMC filter, and many more

Characteristics	Unit	RAKU® PUR 21-1225	RAKU® PUR 21-1250	RAKU® PUR 21-1385	RAKU® PUR 21-2080	RAKU® PUR 21-2350
Color		Black	Beige, Black	Black	Black	Beige, Black
Viscosity A-component	mPa·s	2,300 @ 20°C	8,000 @ 20°C	12,000 @ 20°C	9,000 @ 20°C	4,000 @ 20°C
Mixing ratio A : B	pdw	100 : 20	100 : 20	100 : 10	100 : 10	100 : 16
Mix viscosity	mPa·s	1,900 @ 20°C	3,400 @ 20°C	5,800 @ 20°C	4,400 @ 20°C	2,500 @ 20 °C
Density	g/mL	0.98	1.12	1.57	1.61	1.52
Pot life at / gel time	min	55 @ 20°C	10 @ 20°C	13 @ 20°C	13 @ 20°C	45 @ 20°C
Shore hardness		A 50	A 70	A 82	A 83	D 48
Glass transition temperature	°C	-70	-75	-70	-35	+10
Application temperature range	°C	-40 to +120	-40 to +120	-40 to +130	-40 to +130	-40 to +130
Thermal conductivity	W/m·K	0.2	0.3	1.05	0.9	0.84
Dielectric strength	kV/mm	30	22	30	30	33
Flame rating	UL 94	-	-	V0 / 1.5 mm	V0 / 1.5 mm	V0 / 3 mm
Thermal class		E	E	B	B	B

Characteristics	Unit	RAKU® PUR 21-2360-1	RAKU® PUR 21-2380-3	RAKU® PUR 21-2452	RAKU® PUR 21-2456
Color		Black	Black	Black	Black
Viscosity A-component	mPa·s	9,000 @ 20°C	50,000 @ 20°C	9,000 @ 20°C	77,600 @ 20°C
Mixing ratio A : B	pdw	100 : 15	100 : 7	100 : 14	100 : 8
Mix viscosity	mPa·s	2,800 @ 20 °C	2,800 @ 50°C	3,100 @ 20°C	10,900 @ 20°C
Density	g/mL	1.64	1.9	1.57	1.82
Pot life at / gel time	min	38 @ 20°C	15 @ 60°C	48 @ 20°C	48 @ 20°C
Shore hardness		D 67	D 60	D 41	D 59
Glass transition temperature	°C	+10	+20	0	-5
Application temperature range	°C	-40 to +130	-40 to +130	-40 to +160	-40 to +160
Thermal conductivity	W/m·K	1.09	1.9	0.73	1.57
Dielectric strength	kV/mm	32	31	32	29
Flame rating	UL 94	V0 / 1.5 mm	V0 / 1.5 mm	V0 / 1.5 mm	V0 / 1.5 mm
Thermal class		B	B	F	F