

	Innovation RAIGI UL94 V0 polyurethane systems				
Resin	A409	A410A	J7709	R8809	R8710
Hardener	-	A410B	F	F	F
Mixing ratio (weight)	1 component Epoxy	100/0,87	100/11	100/12,4	100/19,5
Fire Class		-	-	UL 94 V0 1,5 mm	UL 94 V0 1,5 mm
Shore Hardness	85 Sh. D	85 Sh. D	50 Sh. D	55 Sh. D	70 Sh. D
Density	2,25	0,96	1,26	1,58	1,51
Polyol viscosity / Hardener viscosity (mPa.s)	100.000	100.000	15.000/200	9.500/200	5.000/200
Gel time (by 25°C)	At 120°C : 1000 sec At 160°C : 170 sec	At 120°C : 1000 sec At 160°C : 170 sec	40 min	65 min	50 min
Polymerization	At 140°C : 2h At 160°C : 1h	At 140°C : 2h At 160°C : 1h	24h at 70°C 7 days at 20°C	24h at 70°C 7 days at 20°C	24h at 70°C 7 days at 20°C
Dielectric rigidity (kV/mm)	-	-	> 20 kV/mm	> 30 kV/mm/6h	> 30 kV/mm/6h
Dielectric constant (55 KHz)	4,2	4,2	-	4,9	4,4
Loss factor (55 KHz)	0,007	0,007	0,075	0,064	0,046
Volume resistivity (Ω.cm)	1,4 x 10 ¹⁴	1,4 x 10 ¹⁴	-	3 x 10 ¹²	4 x 10 ¹⁴
Resistance to mechanical stresses (Mpa)	-	-	2,8	5,6	12
Elongation at break (%)	-	-	50	14	13
Shock resistance (kJ/mm²)	3,5	3,5	-	-	-
Thermal conductivity (W/(m.K))	1,27	1,27	0,95	0,65	0,78
Advantages	High thermal conductivity	High thermal conductivity	High thermal conductivity Correct viscosity	UL 94 V0 on small thickness	UL 94 V0 on small thickness, good thermal conductivity, low viscosity
Application	Potting / adhesives	Potting / adhesives	Cables accessories (low voltage)	Potting	Potting