

Epoxy systems							
Resin	A331-1	T502	A310A	A410A	T600	A331	T504B
Hardener		D482	A310B	A410B	D109	HV	D100
Mixing ratio (weight)	1 component epoxy	100/27	1 component epoxy	100/0,87	100/87	1 component epoxy	100/37
Fire Class	-	-	-	-	-	-	-
Shore Hardness	85 Sh. D	80 Sh. D	90 Sh. D	85 Sh. D	80 Sh. D	85 Sh. D	78 Sh. D
Density	1,29	1,45	1,4	0,96	1,4	1,29	1,26
Polyol viscosity / Hardener viscosity (mPa.s)	30.000	6.000/200	110.000/-	100.000	27.000/2200	150.000	2.800/4.000
Gel time (by 25°C, minutes)	10	75	11 min at 130°C	1000 sec at 120°C 170 sec at 160°C	40 min	10 min at 80°C	50 min at 25°C 10 min at 70°C
Polymerization	-	>30	-	2h at 140°C 1h at 160°C	>30	-	>30
Dielectric constant (55 KHz)	3,7	4,9	4,1	4,2	3,7	3,7	-
Loss factor (55KHz)	1,00E-01	0,002	1,9*10E-2	0,007	0,02	1,00E-01	-
Volume resistivity (Ω.cm)	3*10E16	5*10E14	3*10E16	1,4*10E14	6*10E14	3*10E16	-
Resistance to mechanical stresses (Mpa)	-	28	-	17	12	-	-
Elongation at break (%)	-	300	125	-	85	2,5	10
Shock resistance (kJ/mm2)	-	2,1	-	3,5	9	-	2,7
Thermal conductivity	-	-	-	1,27	-	-	-
Advantages	-	Hardener without aromatic amines & phenol Low exothermicity	Good resistance to high temperatures	High thermal conductivity	Hardener without aromatic amines & phenol Low exothermicity	-	Volume mixing ratio : 100/50 => possibility to use cartridge
Application	Adhesives / Connections	Potting	Potting Not for massive parts	Potting / adhesives	Potting	Adhesives / Connections	Potting