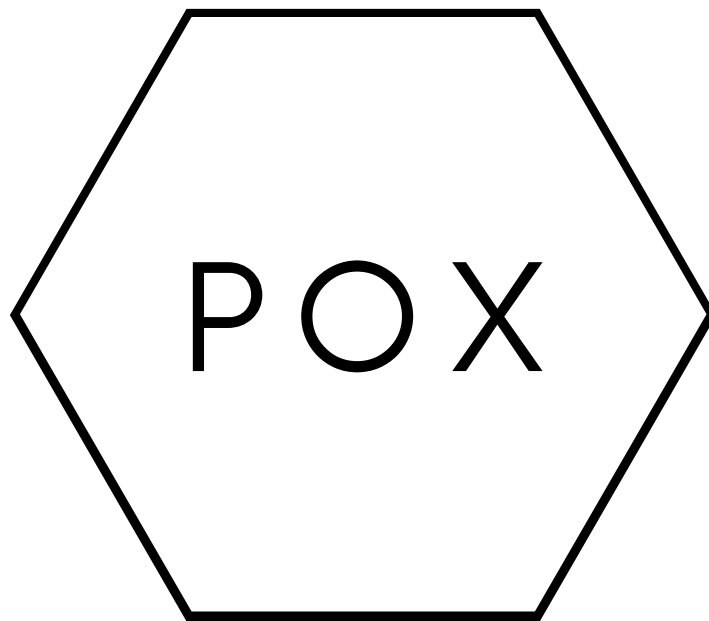




RAIGI CASTING RESINS

EPOXY



| 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 | 80 Sh. D |
| Density | 1.29 | 1.45 | 1.4 | 2.25 | 1.4 | 1.29 | 1.26 |
| Polyol viscosity / Hardener viscosity (mPa.s) | 30.000 | 6.000/200 | 110.000/- | 80.000 | 27.000/2.200 | 150.000 | 2.800/4.000 |
| Gel time (by 25°C, minutes) | 10 | 75 | 11 min at 130°C | 3000 secondes at 100°C 1 hour at 160°C | 40 min | - | 50 min at 25°C |
| Polymerization | - | 24 hours at ambient temperature 3 hours at 80°C | 11 minutes at 130°C 160 secondes at 160°C | - | 24 hours at ambient temperature 3 hours at 80°C | 10 min at 80°C | 24 hours at ambient temperature 3 hours at 80°C |
| Dielectric constant (55 KHz) | 3.7 | 4.9 | 4.1 | 4.2 | 3.7 | 3.7 | - |
| Loss factor (55KHz) | 0.01 | 0.02 | 0.019 | 0.007 | 0.02 | 0.01 | - |
| Volume resistivity (Ω.cm) | 3*10 ¹⁶ | 5*10 ¹⁵ | 3*10 ¹⁶ | 1,4*10 ¹⁴ | 6*10 ¹⁴ | 3*10 ¹⁶ | - |
| Resistance to mechanical stresses (Mpa) | - | 28 | 94 | - | 12 | Flexural modulus of elasticity at 60N : 3 200 Maximal flexion strength : 84 | - |
| Elongation at break (%) | - | 2.1 | - | - | 9 | - | - |
| Shock resistance (kJ/mm²) | - | 6 | 10 | - | 5 | 8 | - |
| Thermal conductivity (°C) or (W/m²K) | 95°C | 46°C | 155°C 0,4 | 93°C 1,27 | 30°C | 95°C 0,3 | - |
| Advantages | - | Hardener without aromatic amines & phenol Low exothermicity | Excellent thermal resistance Excellent resistance to prolonged chemical agent exposure | 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 |

Contact



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