EPOXIES - SINGLE COMPONENT

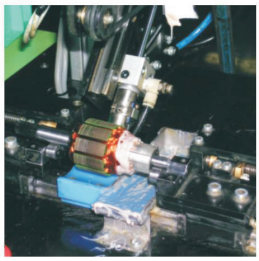
Single component epoxy systems are heat-curing adhesives, which exhibits exceptional bond strength on curing. Single component epoxies are preferred where you need a high strength permanent bonds.

SALIENT FEATURES :

- Heat cure systems.
- No mixing or degassing.
- Excellent bonding strength.
- Good Mechanical strength.
- Highly resistance to acids and many solvents.

APPLICATIONS :

- Impregnating of armature coil.
- Bonding of magnets to yoke.
- Bonding of syringe needles.
- Potting of printed circuit boards.
- Chip masking in printed circuit boards.



TECHNICAL SPECIFICATIONS - EPOXY SINGLE PART

Grade	220	221	222	224	226	227	229
Colour	Grey	Cream	White	Red	Cream	Off-White	Black
Viscosity (cPs)	85000 to 1000000 @30°C	140000 to 160000 @25°C	100000 to 250000 @25°C	200000 to 400000 @30°C	25000 to 35000 @25°C	86000 to 106000 @25°C	71000 to 81000 @25°C
Non Volatile Content (%) (@105±2°C, 3hrs.)	≥99	≥99	≥99	≥98	≥98	≥98	-
Curing Cycle	45 min. (@180±3°C)	30 min. (@150±2°C)	30 min. (@170±2°C)	60 min. (@120±2°C)	30 min. (@100±2°C)	30 min. (@100±2°C)	30 min. (@100±2°C)
Hardness (Shore D) ASTM D 2240	≥80	≥80	≥80	80 - 85	≥80	≥80	≥80
Impact Resistance (Kg.cm/cm^2)	60 - 65	-	60 - 65	-	-	-	-
Shelf Life at 5°C (months)	6	6	3	6	6	6	6
Lap Shear Strength (Kg/cm^2) ASTM D 1002 At Room Temperature	≥180	≥200	≥200	≥75	≥100	≥100	≥100
At 100°C ± 2°C (Kg/cm^2)	≥100	≥180	≥180	-	-	-	-
At 140°C ± 2°C (Kg/cm^2)	≥30	≥140	≥140	-	-	-	-
After exposure to -25°C, 168 hrs. (Kg/cm^2)	≥140	≥170	≥170	-	-	-	-
After immersion in brine (5%) 40°C, ±1°C, 168 hrs. (Kg/cm^2)	≥150	≥170	≥170	-	-	-	-
After immersion in engine oil, 140°C, ±2°C, 168 hrs. (Kg/cm^2)	≥140	≥160	≥160	-	-	-	-
After immersion in gasoline, RT / 168 hrs. (Kg/cm^2)	≥160	≥170	≥170	-	-	-	-