

EPOXY RESINS, EPOXY ESTERS AND REACTIVE DILUENTS

Product Code	Type	Modifier	% Non Volatiles ±2	Solvent	Epoxide equivalent weight	Viscosity		Acid value mg. KOH/g.	Melting Point °C	Notes
						Ref.	Unit			
SYNPOL 200	Bisphenol A based unmodified	...	...	...	170 - 190	V1	100 - 150	...	...	Casting, encapsulation, flooring, potting, adhesives, laminating, reinforced plastics, filament windings, coating & electrotechnical applications. Room temperature curing systems for casting, potting, encapsulation of transformers, solenoid coils, capacitors, switchgear components, insulators, instrument transformers, electronic circuits etc. Heat curing system for casting, potting and encapsulation of electrical & electronic components such as magnet coil, high voltage coils in the construction of transformers, switchgear components, instrument transformers, slip rings, high voltage insulators, etc.
SYNPOL 210	Bisphenol A based unmodified	Reactive diluent	...	...	170 - 200	V1	20 - 30	...	...
SYNPOL 220	Bisphenol A based unmodified	Reactive diluent	...	...	170 - 200	V1	10 - 20	...	...
SYNPOL 230	Bisphenol A based unmodified	Plasticizer	...	...	200 - 230	V1	15 - 25	...	...
SYNPOL 280	Bisphenol A based unmodified	...	...	...	200 - 280	V2	18 - 25 Sec	...	...	High solid coatings, adhesives, laminations etc.
SYNPOL 380	Bisphenol A based unmodified	...	...	...	380 - 410	V8	3.7 - 4.9	...	...
SYNPOL 450XX	Bisphenol A based unmodified	...	75	Xylene	450 - 525	V3	40 - 50	...	...	Chemical resistant air dry and bake coatings, electrotechnical uses, reinforced plastics, electrical laminates.
SYNPOL 900	Bisphenol A based unmodified	...	...	...	850 - 1050	V4	4 - 7	...	95-105	Epoxy esters, air drying & bake finishes, powder coatings.
SYNPOL 1800	Bisphenol A based unmodified	...	...	...	1850 - 2250	V4	17.5 - 36	...	120-135	Thermosetting bake finishes with phenolic and amino resins for chemical resistant container coatings for food & chemical industries.

Product Code	Type	Modifier	% Non Volatiles ±2	Solvent	Epoxide equivalent weight	Viscosity		Acid value mg. KOH/g.	Melting Point °C	Notes
						Ref.	Unit			
SYNPOL 2800	Bisphenol A based unmodified	...	...	...	2400 - 3000	V4	40 - 60	..	120-135	Same as SYNPOL 1800 with added flexibility and adhesion requirement for anti-corrosion and food systems.
SYNPOL 4000	Bisphenol A based unmodified	...	...	...	2500 - 4000	V4	36 - 100	...	120-140	Same as SYNPOL 1800 with added flexibility and adhesion requirement for anti-corrosion and food systems.
SYNPOL 2080	Epoxy Ester	Coconut fatty acid	50	Xylene	...	V1	15 - 25	10 Max	...	Clear & pigmented finishes for electrical & electronic components, ceramic capacitors and appliance finishes.
SYNPOL 6040	Epoxy Ester	Soya fatty acid	50	Xylene / MTO	...	V1	8 - 16	10 Max	...	Clear and pigmented coatings with very good alkali and chemical resistance properties for appliances, hospital equipments and furnitures.
SYNPOL 5545	Epoxy Ester	Linseed fatty acid	70	MTO	...	V5	1 - 4	10 Max	...	Air drying maintenance finishes for corrosive atmosphere and Zinc rich primers. Use 0.03% cobalt and 0.03% lead driers on resin solids.
EPOXY PHENOL P.G.E	Reactive Diluent	...	...	...	150 - 190	V6	5 - 15	...	...	Casting, encapsulations, flooring, bonding etc.
EPOXY PHENOL CNSL	Reactive Diluent	...	...	...	450 - 570	V7	55 - 80	...	...	Casting, encapsulations, flooring, bonding etc.
EPOXY ALCOHOL B.G.E.	Reactive Diluent	...	...	...	140 - 180	V6	1 - 3	...	...	Casting, encapsulations, flooring, bonding etc.

Note:-

V1 of supply at 25°C., in Poises.

V2 of 60% solution in Xylene at 25°C., in B4 Cup in seconds.

V3 of 50% solution in 1:1-DAA:Xylene at 25°C., in B4 Cup in seconds.

V4 of 40% solution in Butyl Carbitol at 25°C., in Poises

V5 of 50% solution in Mineral Spirit at 25°C., in Poises

V6 of supply at 25°C, by Brookfield Spindle # 00, 20 rpm, Cps.

V7 of supply at 25°C, by Brookfield Spindle # 01, 100 rpm, Cps.

V8 of supply at 120°C., by Brookfield Spindle # 3, 50 rpm, Poise.