

## VP-20 modified PPO

VP-20 resin is a modified low molecular weight resin with vinyl end-groups. It has very low dielectric constant and dissipation factor, excellent heat resistance, low moisture uptake, good dimensional stability, and outstanding solubility in toluene & methyl ethyl ketone (MEK). VP-20 is well suited for the preparation of high-frequency, high-speed copper clad laminates and prepregs.

### Typical properties

Properties	Test Methods	Unit	Typical Value
Appearance	/	/	White powder
Specific Gravity	ASTM D792	g/cm <sup>3</sup>	1.02
Mn	Internal method	g/mol	2400
PDI	Internal method	/	1.7
Vinyl Functionality	Internal method	/	> 1.9
Phenolic End-group Content	Internal method	ppm	<200
Solubility (Toluene, 25°C)	Internal method	wt%	50
Solubility (MEK, 25°C)	Internal method	wt%	50
Viscosity, 50 wt% in MEK, 25°C	Internal method	cP	142
Tg	Internal method	°C	155

Note: These figures are only intended as a guide and should not be used in preparing specifications.

### Usage suggestions :

VP-20 resin is soluble in toluene and MEK, and generally suitable for conventional CCL manufacturing technique, except that a higher pressing temperature might be needed. It can be formulated with other components like unsaturated monomers, oligomers and polymers and cure via free radical reactions, or mix-used with epoxy resins.

### Packaging :

25 kg bag, or customized as required.

### Storage :

Stored in cool and dry place out of direct sunlight, package sealed.