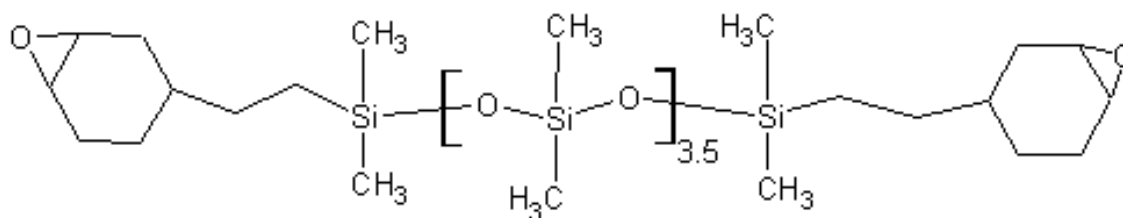


PC-1035 Epoxy Siloxane Monomer

Technical Bulletin



PC-1035

PC-1035 is a low viscosity, difunctional silicon-containing epoxy resin with exceptionally high reactivity. **PC-1035** is a blend of various chain length monomers, which result in a colorless to very pale yellow fluid. The following physical and chemical characteristics make **PC-1035** a unique product suitable for a wide range of applications.

Physical appearance	Colorless to pale yellow liquid
Viscosity	40–60 cP @ 25°C
Specific gravity	0.99
Weight per gallon	8.3 lbs/gal
Thermal decomposition point	>220°C
Water solubility	<1%

PC-1035 can be employed in typical epoxy resin applications. Curing can be accomplished using a wide variety of curing agents including; amines, anhydrides, polyamides and polysulfides. The presence of the cycloaliphatic epoxy groups in the resin makes it especially suitable for cure with anhydrides. In such applications, amine accelerators can be

used. **PC-1035** can also be cured photochemically using cationic polymerizations such as diaryliodonium and triaryl-sulfonium salts. Such cationic polymerizations are especially useful in applications where high cure rates are desirable such as coatings for metals and in printing inks.

The Polyset Company has considerable experience in tailoring formulations based on PC-1035 for specific applications. In addition, the Polyset Company possesses unique thermal and UV epoxy cure systems which provide rapid cure of **PC-1035** at low temperatures. We will gladly formulate **PC-1035** and other epoxy-based resins to your specifications.

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