Polyset product no. **PC-2011** is a viscous, multifunctional silicon-containing epoxy resin with exceptionally high reactivity. **PC-2011** is a clear, colorless to light straw colored fluid which displays low toxicity. The following physical and chemical characteristics make **PC-2011** a unique product suitable for a wide range of applications.

**Typical Uncured Properties**

- **Physical appearance**: Colorless to light straw liquid
- **Viscosity**: 22,000 – 28,000 cps @ 25°C
- **Specific gravity**: 1.08
- **Weight per gallon**: 9.0 lbs/gal

**PC-2011** can be employed in a variety of optical/microelectronics applications. **PC-2011** can be cured photochemically using cationic polymerizations such as diaryliodonium and triarylsulfonium salts. Such cationic polymerizations are especially useful in applications where high cure rates are desirable such as photolithography and printable interconnects.

In cured form, **PC-2011** has desirable mechanical and electrical characteristics including:

**Typical Cured Properties**

- **Hardness**: 350 MPa (@ 20 nm nanoindent)
- **Modulus**: 3 GPa (@ 20 nm nanoindent)
- **Dielectric Constant**: 2.9
- **Refractive Index**: 1.57 (@ λ = 589 nm)
- **Thermal decomposition point**: > 425°C

The Polyset Company has considerable experience in tailoring formulations based on **PC-2011** for specific applications. In addition, the Polyset Company possesses unique thermal and UV epoxy cure systems which provide rapid cure of **PC-2011** at low temperatures. We will gladly formulate **PC-2011** and other epoxy-based resins to your specifications.

**Limited Warranty:** Polyset Company Inc. makes no warranty, expressed or implied, including any warranty of merchantability or fitness for a particular purpose. The sole remedy of Purchaser for any claim concerning this product, including, but not limited to, claims alleging breach of warranty, negligence, strict liability or otherwise, is the replacement of product or refund of the purchase price, at the discretion of Polyset Company Inc. Any claims concerning this product shall be submitted in writing within one year of the delivery date of this product to Purchaser and any claims not presented within that period are waived by Purchaser. IN NO EVENT SHALL POLYSET COMPANY INC. BE LIABLE FOR ANY SPECIAL, INCIDENTAL, CONSEQUENTIAL (INCLUDES LOSS OF PROFITS) OR PUNITIVE DAMAGES.