Hotblox Dielectric 2.3 is a rigid, low loss, moldable dielectric material that is suitable for numerous RF applications, including dielectric lenses, radomes, and filled waveguide applications. This material has a dielectric constant of 2.3 which is similar to that of glass filled PTFE materials. Hotblox Dielectric 2.3 is ideal for continuous use in environments up to 400 °C, and can be used in conditions as high as 600 °C for short duration exposure. Hotblox Dielectric 2.3 has a CTE similar to that of aluminum, enabling design of components using this material in contact with aluminum parts, providing long service life for RF items operating in a variable temperature environment.

**General**

- **Color**: White/off white
- **Continuous Use Temperature**: 400 °C (Determined by Thermogravimetric Analysis)
- **Short Duration Use Temperature**: 600 °C for 2 min. (No degradation in Room Temperature Properties)
- **Water Absorption**: 0.37 wt.% (ASTM D570)

**Thermal Properties**

- **Coefficient of Thermal Expansion (CTE)**: <30 ppm/°C (ASTM E-831)

**Mechanical Properties**

- **Flexural Strength**: 41 MPa (ASTM D 790)

**Electrical Properties**

- **Dielectric Constant (Ka-band)**: 2.3

Hotblox 2.3 injection molded into a simulated radar panel.