

## **TECHNICAL BULLETIN**

**PRODUCT:** POLYSET™ 4000

POLYSET™ 4000 is a unique, difunctional, high molecular weight, bismaleimide resin. At ambient temperature, POLYSET™ 4000 is thermoplastic. However, at temperatures in excess of 100° C (in the presence of a suitable free radical catalyst) thermoset cure will occur. POLYSET™ 4000 exhibits excellent low shrinkage properties, high hydrolytic stability, and high thermal stability (TGA decomposition onset is in excess of 400° C).

POLYSET™ 4000 is recommended for adhesive applications and can be used as an additive to promote adhesion to difficult substrates such as polyolefins, aluminum, and other metals. POLYSET™ 4000 is incompatible with ketones. It can be dissolved in aromatic solvents and, under heat (80° C), it will dissolve into reactive diluents such as isobornyl acrylate.

### **PHYSICAL PROPERTIES:**

Appearance	Light golden brown powder
Density (g/cm <sup>3</sup> )	1.1900 ± 0.0025
Weight loss (TGA @ 300°C)	< 1.0%
Molecular weight (avg.)	>3000 g/mol.
Weight Solids	>99.9%

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