SO1458 - TriSilanolPhenyl POSS®

SO1458 is a hybrid molecule with an inorganic silsequioxane at the core, organic phenyl groups attached at the corners of the cage, and three active silanol functionalities. It is a white powder. It is soluble in most polar organic solvents, monomers, and polymers, but is insoluble in non-polar solvents. SO1458 can be used as a processing aid in thermoplastics and thermosets while still retaining mechanical properties, for surface modification, or as an epoxy or BMI cure promoter.

**PHYSICAL PROPERTIES**

- **Molecular/Chemical Formula:** C₄₂H₆₈O₁₂Si₇
- **Molecular Weight:** 931
- **Appearance:** white powder
- **Density:** 1.42 g/mL
- **Refractive index:** 1.65
- **Thermal Stability (5% weight loss):** 366°C
- **Solvent Solubility:** THF, chloroform, ethanol hexane
- **Solvent Insolubility:** most aromatic and aliphatic monomers, oligomers, and polymers (PP, PE, PA, PC, PET)

**AVAILABILITY**

SO1458, and its lithium salt counterpart - SO1457, are available in R&D and bulk quantities. Contact us at info@hybridplastics.com for a quote.

**WARRANTY**

The information contained herein is believed to be accurate and reliable. However, the user is responsible for determining the suitability and use of the final formulations/products. Hybrid Plastics® warrants that its products will meet specifications, but not merchantability or fitness for use.

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