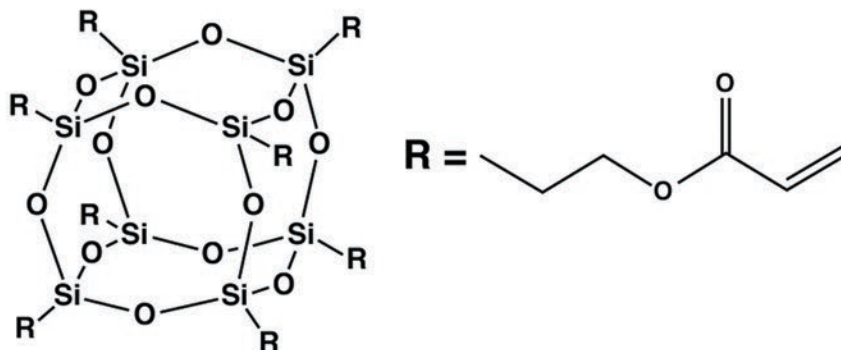


# Acrylo POSS® Cage Mixture

**MA0736**

MA0736 is a hybrid molecule with an inorganic silsequioxane at the core and organic acrylopropyl groups attached at the corners of the cage. MA0736 can be cured through ultraviolet or electron beam. It is especially suitable for applications that require scratch resistance and enhanced mechanical performance.



$(\text{C}_6\text{H}_9\text{O}_2)_n(\text{SiO}_{1.5})_n$   
 $n = 8, 10, 12$  ( $n=8$  shown)

FW 1321.75

Refrigerate

$D_4^{20}$  1.23

\* Cage content  $\geq 90\%$

$n_D^{20}$  1.45

MEHQ inhibited

## Key Properties

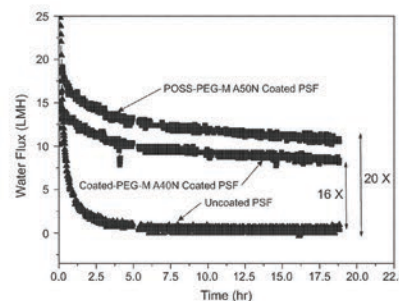
**Appearance:** clear, colorless liquid

**Viscosity (@ 25°C):** 22 Poise

**Thermal Stability (5% wt loss):** 387°C

**Solvent Solubility:** THF, chloroform, acetone, acetonitrile, ethanol

**Solvent Insolubility:** water, methanol



Effect of MA0736 containing compound on hydrophilicity of filter medium

## Relevant Literature

- Hydrophilic polymer films - *US. Pat. Appl. 2011/0120940*
- Nanoporous films - *Materials Chemistry and Physics 114 (2009) 736–741*
- Photocurable Silicon-Based Materials for Imprint Lithography - *Proc. SPIE 6517, Emerging Lithographic Technologies XI, 651729 (March 21, 2007);*

CAS 1620202-27-8 Authorizations: TSCA, INCI

**\$200/100g \$949/kg**