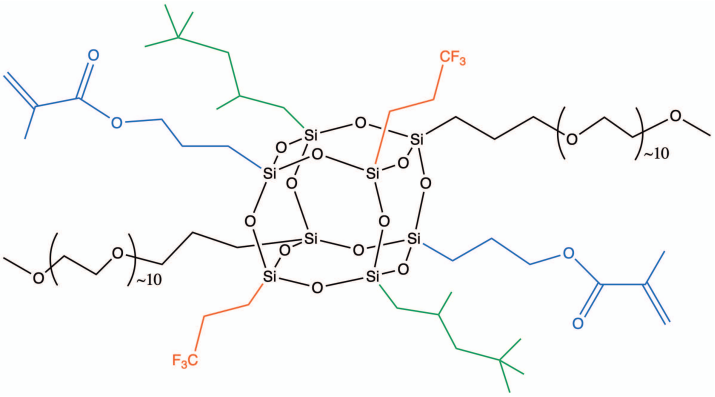
Product - HC 07051013.2211

Methacrylpropyl Trifluoropropyl i-Octyl PEG POSS®

Clear, low viscosity liquid.



APPLICATIONS

A polymerizable surface energy control and interfacial compatibilization additive. Additionally dispersion enhancement and gloss can be realized in certain formulations.

TYPICAL PROPERTIES

Appearance	Clear low viscosity liquid
Viscosity (@25˚C)	350-400 mPa s
Refractive Index	1.4523 @ 18.8 °C
Formula Weight	2081.72 averaged
Solvent Solubility	Water, alcohols, ketones, cyclohexane
Insolubility	Polydimethylsiloxane

REGULATORY STATUS

R&D use only at this time.
Not a primary dermal irritant.

HANDLING PRECAUTIONS

Product safety information required for safe use is not included in this document. Before handling, read product and material safety data sheets and container labels for safe use, physical health and hazard information. For material safety data information, contact Hybrid.

BENEFITS

UV free radical and addition cure. The combination of reactivity provides for compatibilization, interfacial control and dispersion. The crosslinking capability in combination with poly-polarity provides for hydrophophilicity and surface energy control.

DESCRIPTION

This polyfunctional POSS® is a hybrid molecule with an inorganic silsesquioxane core and organic reactive groups attached at the corners of the cage. This POSS® is a molecular union of both functional chemistry and inorganic-organic compositions.

COMPATIBILITY

This POSS® is provided in neat form and as a concentrate in solvents/monomers and resins.

This POSS® is intended to be utilized as an additive. At low additive concentrations compatibility is expected with a wide range of resins and monomers bearing similar chemical functionality.

Compatibility testing is recommended for higher concentrations. Additional information and screening may be provided by Hybrid upon request.

ADDITIONAL DETAILS

Heteroleptic POSS® are a provided as a mixture of cages sizes 8, 10, 12. The organic groups are randomly distributed around each cage core. The molar ratio of methacryl, trifluropropyl, i-octyl, and PEG groups is 2:2:1:1 for HC07051013.2211

The distribution of cage size, and functionality around the cage core is analogous to that for functional copolymers.

Heteroleptic Cage POSS are represented by the catalog designation HC. The structure shown is idealized and should not be considered exact.

WANT ADDITIONAL MOLAR RATIOS
please send request to info@hybridplastics.com

Custom requests are always welcome.

hybrid

www.hybridplastics.com

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