Hybrid Plastics POSSÂ® MA0705 MethacrylCyclopentyl-POSSÂ®

Category : Other Engineering Material , Additive/Filler for Polymer , Polymer , Thermoplastic , Siloxane , Thermoset , Methacrylate

Material Notes:

POSSÂ® Nanostructured Chemical Technology has two unique features: (1) the chemical composition is a hybrid, intermediate (RSiO1.5) between that of silica (SiO2) and silicones (R2SiO). (2) POSSÂ® molecules are physically large ranging from approximately 1-3 nm. POSSÂ® materials are thermally and chemically more robust than silicones and their nanostructured architecture imparts unique properties by controlling polymer chain motion at the molecular level. POSSÂ®-Methacrylates possess a hybrid inorganic-organic three-dimensional structure, which contains from one to eight methacryl groups. The majority of POSSÂ®-Methacrylates contain seven non-reactive organic groups and one methacryl group. While the monofunctional methacrylates can be incorporated into thermoplastics by copolymerization or grafting, the multifunctional methacrylates can be used as effective cross-linkers. They react similarly in polymerization, grafting and cross-linking reactions to standard organic monomers. While reacting similarly to simple organic methacrylates, POSSÂ®-Methacrylates impart significant improvements in the thermal, mechanical, and gas separation properties of traditional plastics.Information provided by Hybrid Plastics

Order this product through the following link:
http://www.lookpolymers.com/polymer_Hybrid-Plastics-POSS-MA0705-MethacrylCyclopentyl-POSS.php

Physical Properties	Metric	English	Comments
Molecular Weight	1027.73 g/mol	1027.73 g/mol	

Thermal Properties	Metric	English	Comments
Melting Point	263 Â°C	505 Â°F	
Decomposition Temperature	388 Â°C	730 Â°F	

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