

Dow Corning Z-6124 SILANE

Category : Other Engineering Material , Additive/Filler for Polymer

Material Notes:

Dow Corning® Z-6124 Silane has the chemical formula: $(\text{CH}_3\text{O})_3\text{Si}$ and is designated phenyltrimethoxy silane. Dow Corning Z-6124 Silane is a chemical monomer that reacts with water to form a silanetriol and methanol. Following hydrolysis, reactive silanol groups are formed, which can condense with other silanol groups, i.e., those on the surface of siliceous fillers, to form siloxane linkages. Stable condensation products are also formed with other oxides such as those of aluminum, zirconium, tin, titanium and nickel. Less stable bonds are formed with oxides of boron, iron and carbon. Alkali metal oxides and carbonate do not form stable bonds with Si-O. Sufficient water for hydrolysis may be available from atmospheric moisture, or on the substrate surface. In some cases, it may be necessary to add water to increase the degree of hydrolysis. The tendency toward self-condensation can be controlled by using fresh solutions, alcoholic solvents, dilution and careful selection of pH ranges. Silanetriols are most stable at pH 3-4, but condense rapidly at pH 7-9. Information provided by Dow Corning

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-Corning-Z-6124-SILANE.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.05 g/cc	1.05 g/cc	
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Molecular Weight	198 g/mol	198 g/mol	

Thermal Properties	Metric	English	Comments
Flash Point	29.0 °C	84.2 °F	closed cup

Optical Properties	Metric	English	Comments
Refractive Index	1.4734	1.4734	

Processing Properties	Metric	English	Comments
Shelf Life	36.0 Month	36.0 Month	

Descriptive Properties	Value	Comments
Hydrophobic	yes	
Purity (%)	94	

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