Dow Corning Z-6011 SILANE

Category : Other Engineering Material , Additive/Filler for Polymer

Material Notes:

Dow Corning® Z-6011 Silane is a reactive chemical containing an aminopropyl organic group and a triethoxysilyl inorganic group. Chemically, Dow Corning® Z-6011 Silane is designated gammaaminopropyltriethoxysilane (fw 221.4). Possessing both organic and inorganic reactivity, Dow Corning® Z-6011 Silane can react with organic resins and elastomers as well as with the surface of inorganic materials such as fiberglass and silica. This aminopropyl functional silane is one of a series of Dow Corning organofunctional silane chemicals. Other reactive silanes include di-amine (Dow Corning® Z-6020 Silane), methacrylate (Dow Corning® Z-6030 Silane), epoxy (Dow Corning® Z-6040 Silane), vinyls (Dow Corning® Z-6300 Silane and Dow Corning® Z-6518 Silane), chloroalkyl (Dow Corning® Z-6076 Silane and Dow Corning® Z-6376 Silane), and vinylbenzylamine (Dow Corning® Z-6032 Silane and Dow Corning® Z-6224 Silane). Dow Corning® Z-6011 Silane is particularly recommended for fiberglass-reinforced phenolic, melamine, and epoxy thermoset composites, either as a fiberglass finish or as a resinous additive. Data suggests that this silane can also improve the performance of these types of thermoset resins when used as mineral binders in foundry and abrasive composite applications. When used as a resin additive, generally the silane is added at a level of 1 percent based on the weight of the resin solids. For each specific application, the optimum level of additive should be determined by testing several concentrations. When used as an additive to epoxy coating, Dow Corning® Z-6011 Silane improves adhesion of the coating, particularly in very humid environments. Dow Corning® Z-6011 Silane has also been found to be an effective coupling agent for clay-reinforced elastomers such as natural and nitrile rubber. The silane-treated clay provides improvement in both physical and dynamic properties compared with similar cured elastomers containing untreated clay. Dow Corning® Z-6011 Silane will also improve the adhesion of many coatings (urethanes, epoxies, phenolics, and others) to glass and metal surfaces. Best performance is realized when Dow Corning® Z-6011 Silane is used as a primer, although addition to the coating can also give benefits.Information provided by Dow Corning

Order this product through the following link:
http://www.lookpolymers.com/polymer_Dow-Corning-Z-6011-SILANE.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.946 g/cc	0.946 g/cc	
Kinematic Viscosity	1.6 cSt	1.6 cSt	
Molecular Weight	221.37 g/mol	221.37 g/mol	

Thermal Properties	Metric	English	Comments
Flash Point	96.0 °C	205 °F	closed cup

Processing Properties	Metric	English	Comments
Shelf Life	24.0 Month	24.0 Month	

Descriptive Properties	Value	Comments
Adhesion to Vinyl/PVC-U	yes	

Descriptive Properties	Value	Comments
Appearance	colorless liquid	
Color	pale yellow	
Purity (%)	98.5	

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