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Polymers and Coatings Program  
Department of Chemistry and Biochemistry  
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June 17, 2011

Roxanne Swift  
Technical Director  
Design Polymerics  
11609 Martens River Circle  
Fountain Valley, CA 92708

Dear Roxanne:

We have completed our analysis of the volatile organic compound content of the sealant sample you sent us.

We analyzed this sample using a slightly modified version of ASTM Method 6886. We used methanol as the solvent and ethylene glycol diethyl ether as the reference compound. Using the 500 ppm cutoff specified in ASTM D6886-03 this sample has zero material VOC and zero coating VOC.

We have calculated two different VOC values for this coating. The material VOC is the grams of VOC per liter of product, which is also the fraction VOC multiplied by the density of the coating in g/L. This is sometimes referred to as the actual VOC. The coating VOC is the grams of VOC per liter of coating minus liters of water minus liters of exempt solvents. In other words, the denominator in the calculation reflects the volume remaining from one liter of product after subtracting the volume of water and the volume of exempts in the liter of product. The coating VOC is sometimes referred to as the regulatory VOC or grams of VOC per liter of coating less water and less exempt compounds.

Summary results for the sample are shown below.

VOC measured using ASTM D6886-03						
sample	density/(g/L)	solid fraction	water fraction, calcd	VOC fraction	material VOC/(g/L)	coating VOC/(g/L)
DP 3040	1351	0.6539	0.3461	0	0	0

Please let me know if you have any questions.

Sincerely,

Dane R. Jones, Professor  
(805) 756-2528