



PVC Sheets Weatherability

EX-CEL® PVC foam sheets exhibit excellent outdoor weatherability under varying environmental conditions.

Color Change:

EX-CEL PVC free foam sheets display acceptable color stability in WHITE. White sheets have superior weatherability over colors. **Only White sheets are recommended for long-term exterior usage.**

EX-CEL PVC free foam sheets can sustain from being embrittled in colder conditions, however, certain solvents (e.g. Cyclohexanone) in ink can cause environmental stress cracking and lowering impact resistance. Therefore, solvent systems for diluting screen printing ink must be carefully chosen.

Accelerated Weathering Studies

EX-CEL® PVC white and color foam sheets were subjected to accelerated weathering studies in a QUV machine, under UV-B lamps (313 nm) for a period of 1000 hours with 4 hour UV radiation (140° F) and 4 hours condensation (104° F) alternating cycles.

At intervals of 100 hours, the samples were analyzed for color change in a spectrophotometer and the change in color (DE) in plotted verses time in hours.

The following slides present the results of the studies. **In conclusion, White sheets are excellent for outdoor applications, whereas color sheets are not recommended for outdoor applications.** EX-CEL PVC color sheets should be evenly coated with a colorless protective layer prior to being installed outdoors for a period of 6 months or more

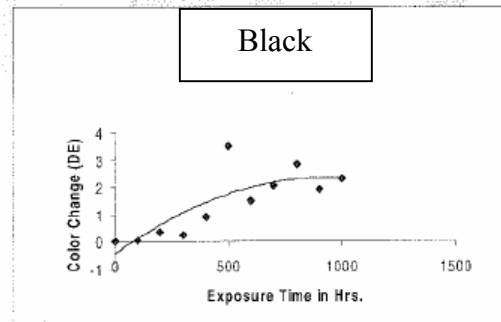
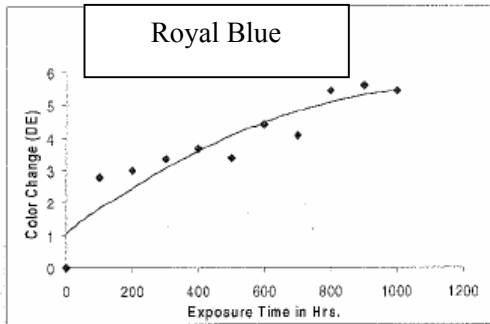
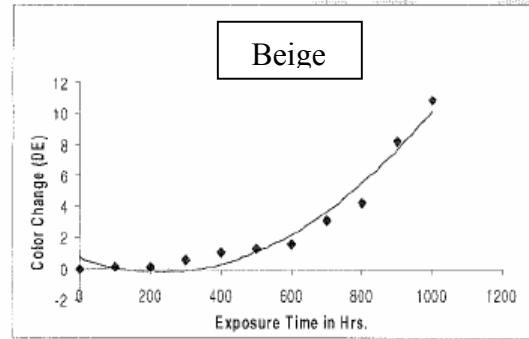
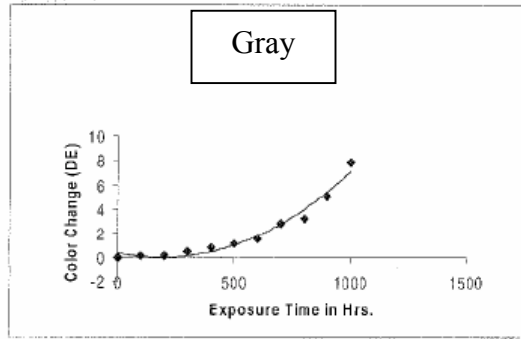
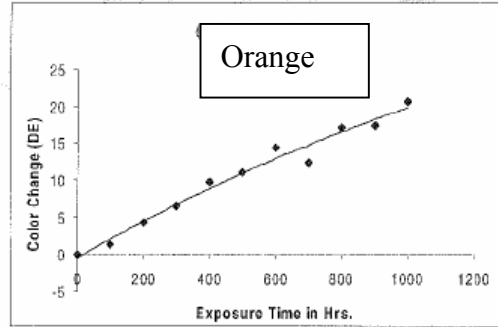
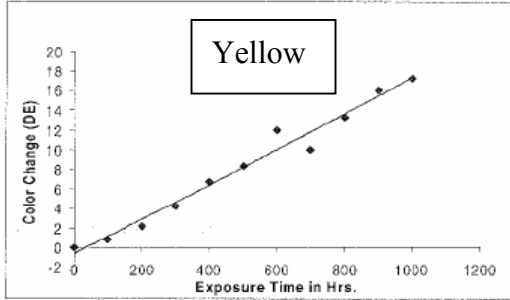


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888-473-7539

www.jainamericas.com

QUV Weathering Study of EX-CEL Foam Sheet

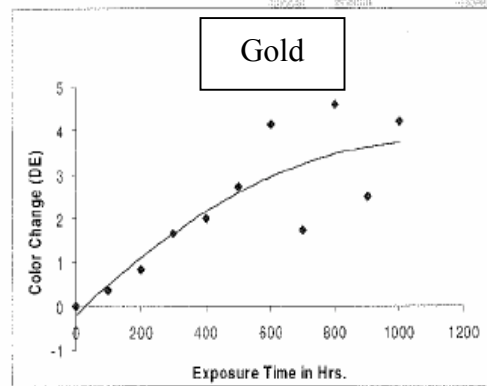
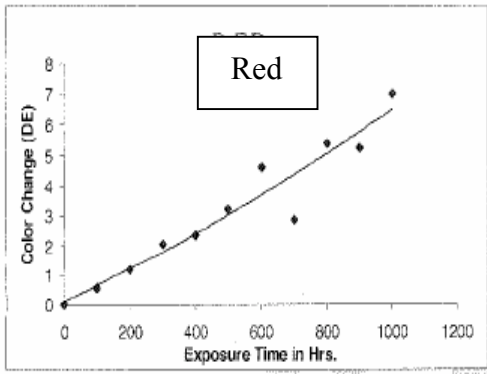
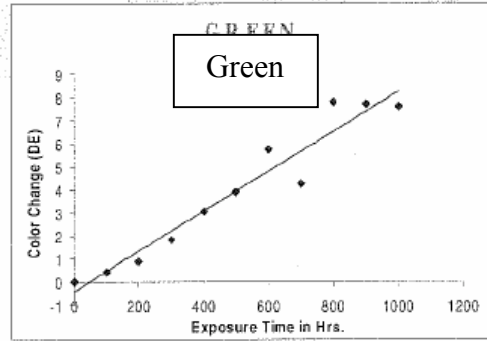
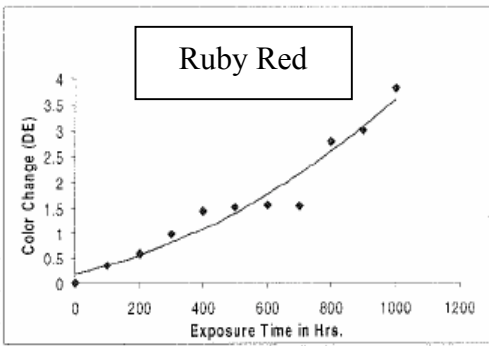
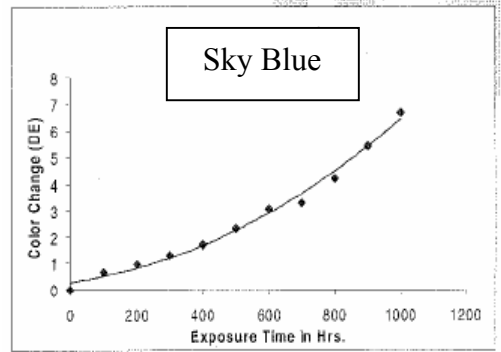
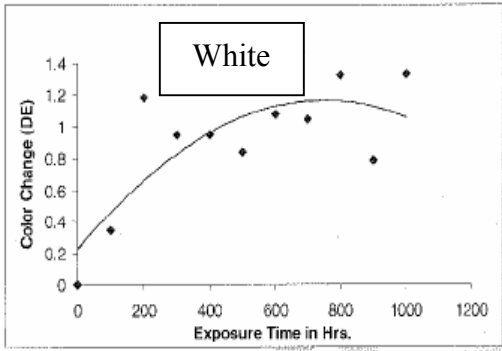


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