

Materials List for:

The Evolution of Silica Nanoparticle-polyester Coatings on Surfaces Exposed to Sunlight

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Materials

Name	Company	Catalog Number	Comments
polyester-coated steel silica nanoparticle-polyester coated steel substrata	BlueScope Steel		Samples provided by company
Millipore PetriSlide™	Fisher Scientific	PDMA04700	Storing samples
Thermo Scientific™ K-alpha X-ray Photoelectron Spectrometer	Thermo Fisher Scientific, Inc.	IQLAADGAAFFACVMAHV	Acquire XPS spectra
Avantage Data System	Thermo Fisher Scientific, Inc.	IQLAADGACKFAKRMV1	Analyse XPS spectra
A Bruker Hyperion 2000 microscope	Bruker Corporation		Synchrotron integrated instrument
Bruker Opus v. 7.2	Bruker Corporation		ATR-IR analysis software
Contact angle goniometer, FTA1000c	First Ten Ångströms Inc., VA, USA		Measuring the wettability of surfaces
FTA v. 2.0	First Ten Ångströms Inc., VA, USA		Analyzing water contact angle
Optical profiler, Wyko NT1100	Bruker Corporation		Measure surface topography
Innova atomic force microscope	Bruker Corporation		Measure surface topography
Phosphorus doped silicon probes, MPP-31120-10	Bruker Corporation		AFM probes
Gwyddion software	http://gwyddion.net/		Software used to measure optical profiling and AFM data