

Materials List for:

Disentangling High Strength Copolymer Aramid Fibers to Enable the Determination of Their Mechanical Properties

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Materials

Name	Company	Catalog Number	Comments
Stereo microscope	National	DC4-456H	Digital microscope
RSA-G2 Solids Analyzer	TA Instruments		Dynamic mechanical thermal analyzer used in transient tensile mode with Film Tension Clamp Accessory
Vertex 80	Bruker Optics		Fourier Transform Infrared spectrometer used to analyze results of washing protocol, equipped with mercury cadmium telluride (MCT) detector.
Durascope	Smiths Detection		Attenuated total reflectance accessory used to perform FTIR
Torque hex-end wrench	M.H.H. Engineering	Quickset Minor	Torque wrench
Methanol	J.T. Baker	9093-02	methanol solvent
Acetone	Fisher	A185-4	acetone solvent
Cyanoacrylate	Loctite		Super glue
FEI Helios 660 Dual Beam FIB/ SEM	FEI Helios		Scanning electron microscope
Denton Desktop sputter coater			sputter coater
25 mm O.D. stainless steel washers with a 6.25 mm hole			25 mm O.D. stainless steel washers with a 6.25 mm hole
Silver behenate			Wide angle X-ray scattering (WAXS) standard
Xenocs Xeuss SAXS/WAXS small angle X-ray scattering system	Xenocs Xeuss		SAXS/WAXS small angle X-ray scattering system equipped with an X-ray video-rate imager for SAXS analysis with a minimum Q = 0.0045 Å ⁻¹ , detector separate X-ray video-rate imager for WAXS analysis (up to about 45° 2θ) sample holder chamber.
Fit 2D software			Software to analyze WAXS data