

Materials List for:

# Experimental Implementation of a New Composite Fabrication Method: Exposing Bare Fibers on the Composite Surface by the Soft Layer Method

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## Materials

Name	Company	Catalog Number	Comments
Unidirectional carbon/epoxy prepreg	SK Chemicals	USN020	Used to fabricate unidirectional carbon composite
Plain weave carbon fabric/epoxy prepreg	SK Chemicals	WSN 1k	Used to fabricate fabric carbon composite
Plain weave carbon fabric	SK Chemicals	C-112	Used to fabricate fabric carbon composite
Non-woven carbon felt	Newell	Graphite felt 3 mm	Used to fabricated felt carbon composite
Film type epoxy resin	SK Chemicals	K51	Used as a matrix of the composite
Acetone 99.5%	Samchun	67-64-1	Used to cleanse the carbon fiber and the soft layers
Mold release	ShinEtsu	KF-96	Used to coat the mold
Release film	Airtech	A4000V	Used as a soft layer
Compression mold	N/A	N/A	Machined in lab. Material: NAK80
Hot press	Hydrotek 100	N/A	Used to apply pressure and heat
Scanning electron microscope	FEI Compnay	Magellan 400	Used to investigate the surface of the composite