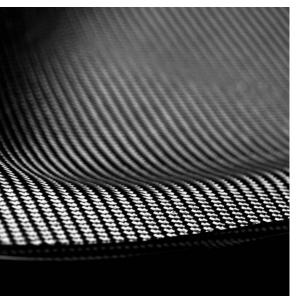
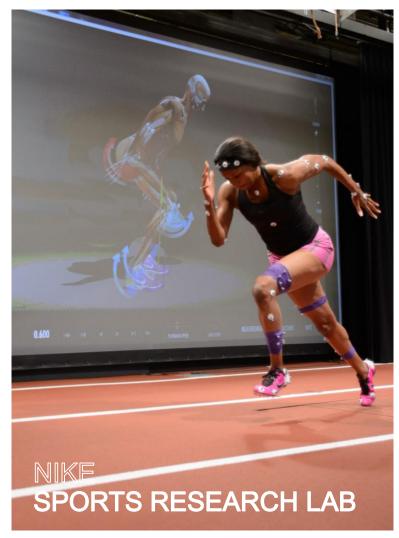


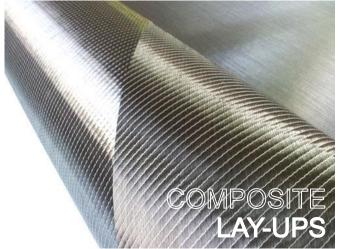
## FOOTWEAR DMPOSITE MATERIALS



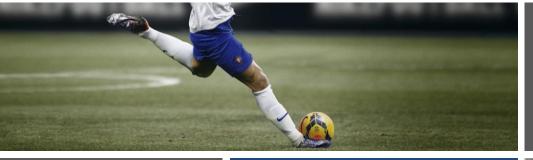






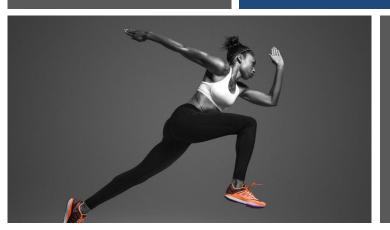






# ATHLETË





PERFORMAN



#### COMPOSITE REQUIREMENTS

- LIGHTWEIGHT
- FLEXURAL FATIGUE, F(T)
- ENERGY RETURN
- LONG-TERM DURABILITY
  - PLATE
  - DELAMINATION
- AESTHETIC OPTION(S)
- COMFORT (I.E. STUD PRESSURE)
- RAPID PROTOTYPING

#### KPI'S

- SPECIFIC GRAVITY
- GAUGE THICKNESS
- COLD ROSS FLEX
- OVERMOLD ADHESION









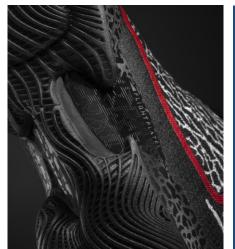
#### MERCURIAL SUPERFLY IV SOCCER

- LAUNCHED JUNE 2014
- FLYKNIT UPPER THREE KNIT WEAVE
- FLYWIRE TOE TO HEEL FOR A 'SLING SHOT' EFFECT – FORWARD PROPULSION
- HIGH-TOP DYNAMIC FIT COLLAR BETTER FIT/SENSATION
- FLEXIBLE FULL-LENGTH CARBON PLATE FOR MORE EFFICIENT POWER TRANSMITION









### AIR JORDON 28

- CF MIDSOLE SHELL
- CF HEEL COUNTERS
- INCREASED ENERGY RETURN
- ENERGY EFFICIENCY & ENDURAC -'FAST FOR LONGER'

-RUSSELL WESTBROOK







#### AJ RETRO XII

- AJ XI FIRST CARBON PLATE INCORPORATED IN THE AIR JORDAN OUTSOLE WINDOW MAKING IT LIGHTER & DURABLE
- PLATE FORMULATED FOR AESTHETICS
  - CHEVRON PATTERN SPECIFIC TO XII
  - GLASS & CARBON COMPOSITE WEAVE ALLOWING FOR VARIOUS COLOR COMBINATIONS



#### CONCLUSIONS

- THERMOPLASTIC COMPOSITES ARE A SIGNIFICANT GROWTH OPPORTUNITY FOR NIKE FOOTWEAR.
- CLEATED FOOTWEAR COMPOSITE APPLICATIONS REQUIRE HIGH ENERGY RETURN AND FLEXURAL FATIGUE.
- FOOTWEAR INNOVATION OPPORTUNITIES REQUIRE RAPID PROTOTYPING FOR ATHLETE PERFORMANCE INSIGHTS.
- AESTHETIC OPTIONS ARE EXTREMELY IMPORTANT FOR COMPOSITE FOOTWEAR APPLICATIONS.



