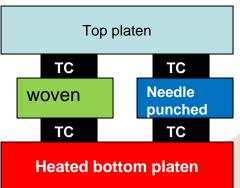
Thermal insulative capacity

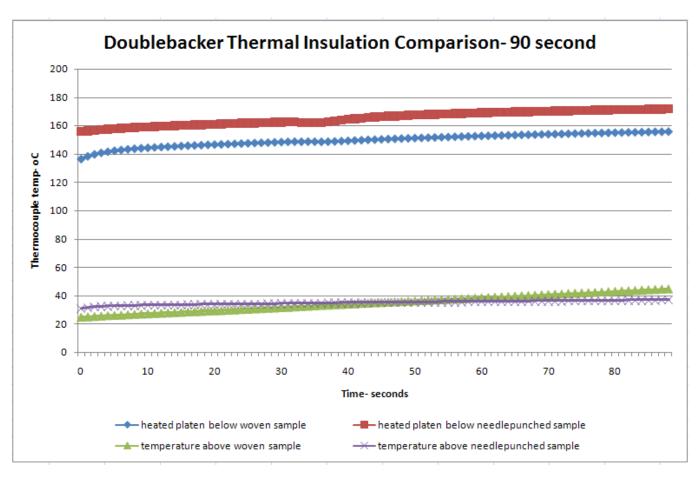
- Equipment: Carver press with bottom platen heated to 370F (188C) to simulate hot-plate section of doublebacker. One set of thermocouples placed between platen and corrugator fabrics, another set above the fabrics.
- Data obtained: temperature of top surface of fabrics having the same bottom side temperature: an indication of the insulative capability of the two belts.
- A cooler top surface indicates a better insulator, allowing for more heat to be directed to the board in operation, or the possibility for lower energy consumption.







Thermal insulative capacity



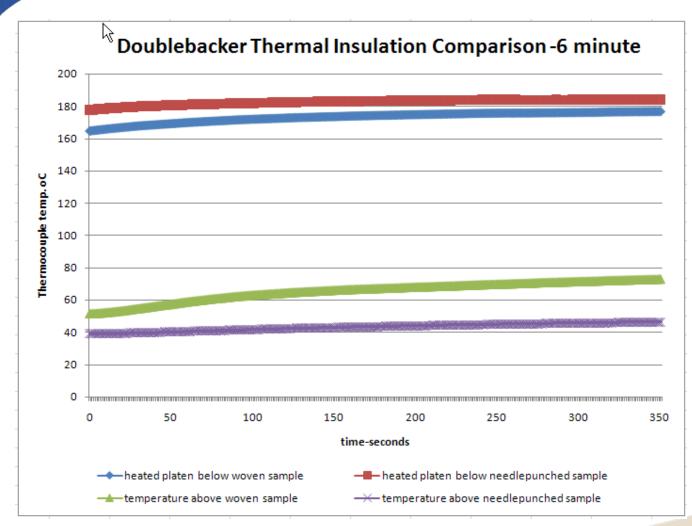
Initial test: 90 second exposure-

Bottom platen temperature remained cooler under woven sample although after 40 seconds top surface of woven sample became hotter

Test was repeated, and duration extended.....



Thermal insulative capacity



Second test: 6 minute exposure:

Bottom platen temperature remained cooler under woven sample.
Equilibrium difference between woven and needlepunched top surface was > 25°C, indicating superior insulative capacity of needlepunched structure

