

a



Customer Need

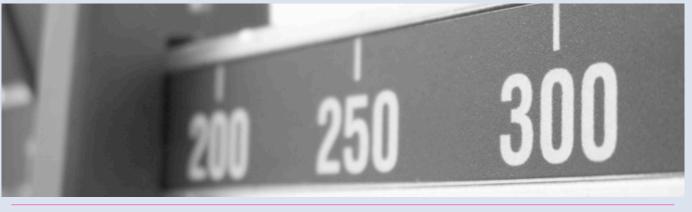
Product Attribute

Engineering Specification

Is not too heavy to bring onto airplane as a carry-on bag	Weight	Less than 10 pounds
Fits onto domestic overhead baggage compartment	Size	Three sides are equal to or less than 22" x 14' 'x 9"
Modules will remain connected while you are traveling	Module Detatchment Force	> 5 Newtons to separate modules
Compartments are easily accessible	Time to attatch/detach modules	< 3 seconds to attach/detach modules
Easy to put together/ take apart	Ease of Assembly	< 3 minutes to fully assemble or disassemble suitcase
Bag remains intact when dropped	Durability	> 10 drops from 3 meters
Easy to pull along the ground	Force to pull forward	< 2 Newtons

Intended Market | Luggage/Travel Accessories **Target audience** | Frequent Flyers





Weight

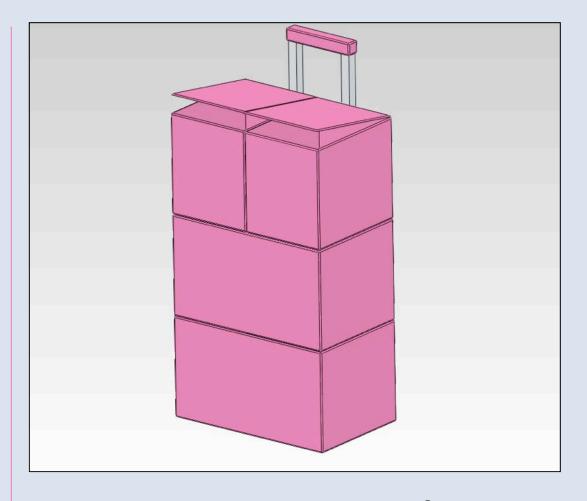


Size



Attachments

ABS Polycarbonate Ballistic Nylon Aluminum **Titanium** Carbon Fiber



Volume: 235.42 in³

Surface Area: 3937.5 in²

Weight











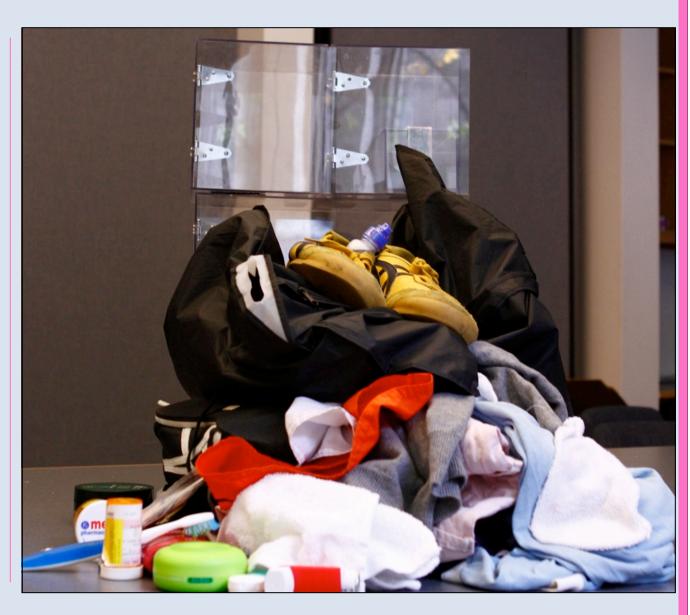
Size

modular suitcase









Effective Volume modulair modular suitcase







Attachments



Attachments modulair modular suitcase

Modular Concept

Weight



Attachments





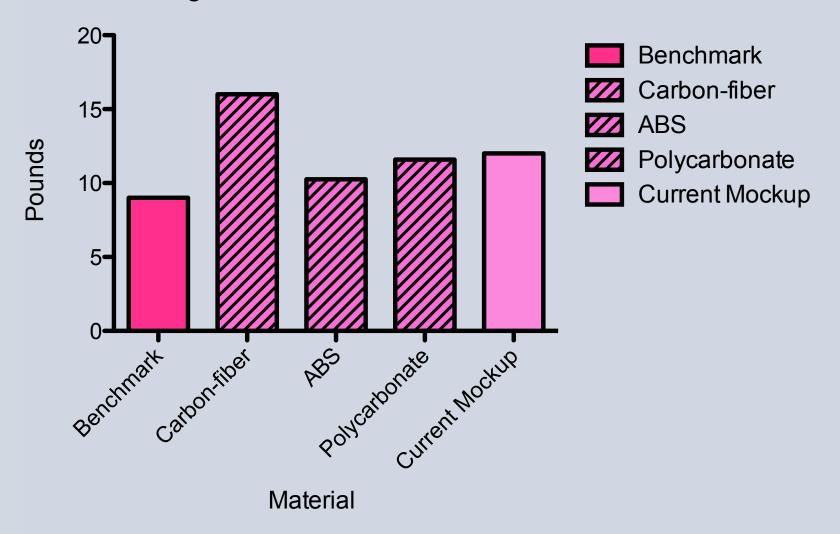




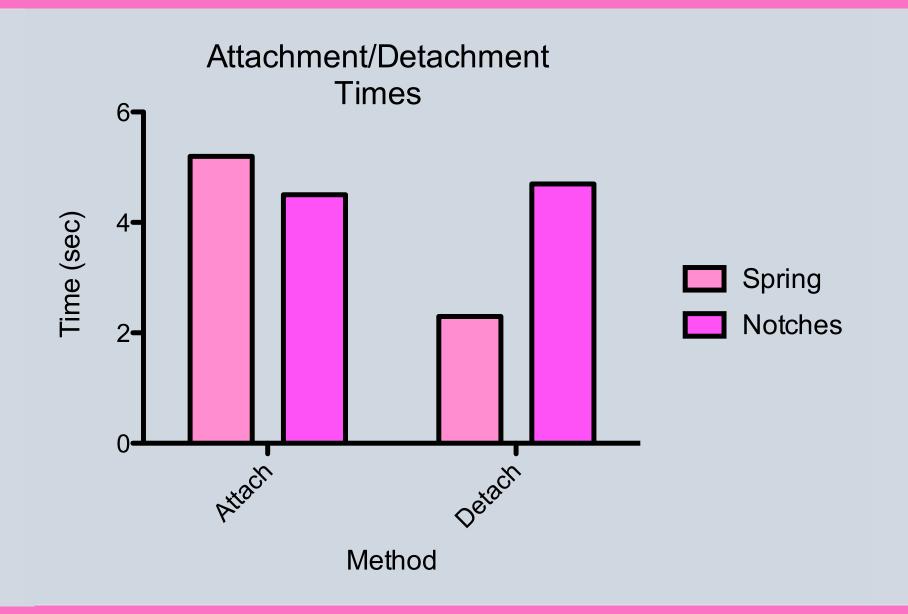


modular suitcase

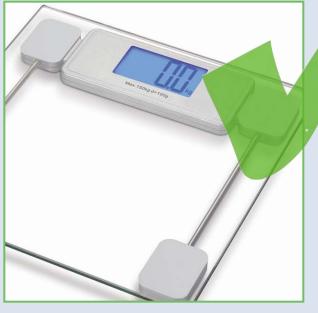
Weight of Various Materials















modular modular suitcase

http://www2.hiren.info/desktopwallpapers/3d/the-cubes-cubed.jpg http://i00.i.aliimg.com/photo/v0/262719438/Body_weight_scale_bathroom_scale_health_scale.jpg http://0.tqn.com/d/chemistry/1/0/e/W/1/pink-flask.jpg http://upload.wikimedia.org/wikipedia/commons/4/4d/Carabiner.jpg



Questions?