



SynDaver Tissue Plates



Adult Skin Plate

Included Layers:

Skin that is realistically textured on the surface and smooth on the subcutaneous side.

Available Sizes:

20cm x 20cm

Layer Thickness:

Nominal Thickness of 1-3mm



Basic Tissue Plate

Included Layers:

Adult skin & subcutaneous fat.

Available Sizes:

10cm x 10cm OR 20cm x 20cm

Layer Thickness:

Skin: 1mm Fat: 5mm

These tissues are designed with multiple distinct layers and are generally produced as 20 cm x 20 cm square plates, although some variations in size may occur. The standard adult skin layer exhibits a mean penetration force of approximately 2N in our testing, making it an effective model for most human skin areas, such as the face, forearm, and groin. For thicker or more callused regions, such as the abdomen or lower back, skins with higher penetration values are available, ranging from 2N to 10N. The typical human pain threshold falls within the 2-4N range.

The basic model is constructed using our patented SynTissue synthetic human tissues, which are composed of salt, water, and fibers. These materials are engineered based on rigorous physical testing conducted on actual living tissue. Each synthetic tissue is validated to ensure it mimics the physical properties of the live tissue it represents, including tensile modulus, abrasion resistance, penetration force, coefficient of friction, thermal conductivity, and dielectric constant. As a result, the synthetic tissue behaves similarly to real living tissue, making it an ideal solution for medical device design verification and validation testing.

Packaging

Product is shipped vacuum packed.

Equipment Compatibility

Laser scalpels, electrocautery and RF ablation devices, harmonic blades, monopolar and bipolar devices, plasma knives, ultrasound equipment, and all known imaging equipment.

Skin Toughness Options

2N, 4N, 6N, 8N, or 10N

Skin Color Options

Caucasian, Tan, or Brown



SynDaver Tissue Plates



Included Layers:

Adult skin, subcutaneous fat, & skeletal muscle.

Available Sizes:

10cm x 10cm OR 20cm x 20cm

Layer Thickness:

Skin: 1mm

Fat: 5mm

Muscle: 3mm, 5mm, or 8mm



Abdominal Tissue Plate

Included Layers:

Adult skin, subcutaneous fat, bulk fat, skeletal muscle, rectus fascia, scarpas fascia, and peritoneal membrane.

Available Sizes:

10cm x 5cm, 10cm x 10cm, 20cm x 20cm

Overall Thickness:

20–25 mm

Extraordinary Features

SynTissue synthetic human tissues made from salt, water and fiber – which feature the world's most realistic tactility. The standard adult skin layer exhibits a mean force of approximately 2N in our penetration test, this selection is an appropriate mimic for most skin on the human body (face, forearm, groin, etc.) Skins exhibiting greater penetration values are appropriate for thicker or more callused areas (abdomen, lower back, etc.) of the body. Penetration values 2N, 4N, 6N, 8N and 10N are available. Typical human pain threshold occurs in the 2-4N range. Basic model construction employs our patented SynTissue synthetic human tissues. These materials are experimentally designed on the basis of physical tests performed on actual living tissue. The resulting synthetic tissue responds to stimulus much like real living tissue.

Skin Toughness Options

2N, 4N, 8N, or 10N

Skin Color Options

Caucasian, Tan, or Brown

Packaging

Product is packaged in an airtight, vacuum sealed bag.

Equipment Compatibility

Laser scalpels, electrocautery and RF ablation devices, harmonic blades, monopolar and bipolar devices, plasma knives, ultrasound equipment, and all known imaging equipment.

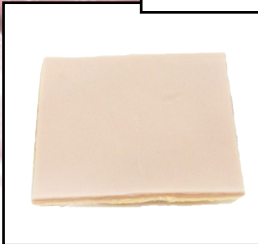
SynDaver Tissue Plates



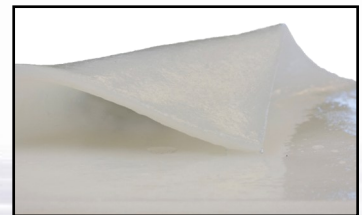
Knot Tying Pad



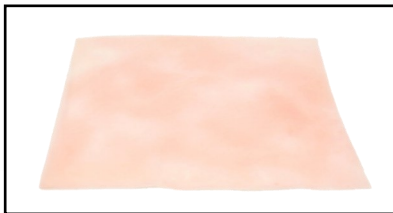
Abscess Pad



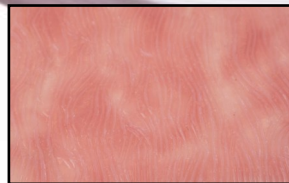
Cardiac / Arterial / Venous Tissue



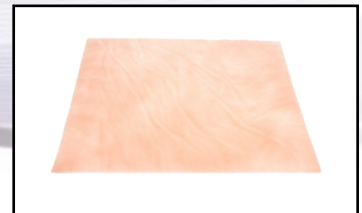
Rotator Cuff



Esophagus Tissue



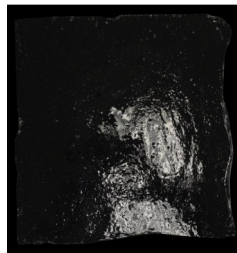
Vaginal Tissue



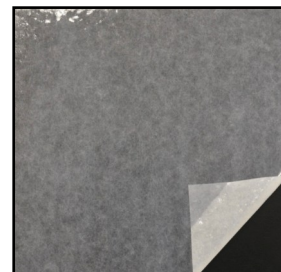
Stomach Tissue



Fascia Latae



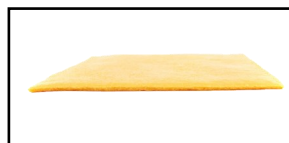
Mucosal Fascia



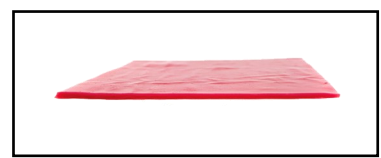
Fibrous Fascia



Bulk Fat



Subcutaneous Fat



Skeletal Muscle