

DIY

ANT 安耐特
ANT NEW MATERIAL



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ANT-32

Advanced thermoplastic for
high-performance sheath
& holster production

JIANGSU ANNAITE NEW MATERIAL TECHNOLOGY CO.,LTD.

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PRODUCT
INTRODUCTION

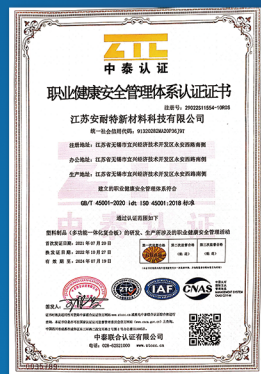
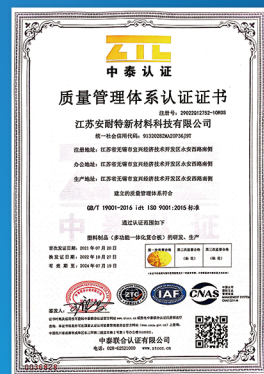
Company Profile

Jiangsu Annaite New Material Technology Co.,Ltd. wans established in 2019 and is located in the heart of the Yangtze River Delta Industrial Cluster---Yixing Entrepreneurship Park, Wuxi. It is a scientific and technological enterprise engaged in R&D,manufacturing,and marketing of specialized thermoplastic composite panels.Its endruiding strategy revolves around market focus,customer priority,and innovation propulsion.

ANT thermolpastic panels are widely used in aviation,medical,electronics,construction and other industries with theiresceptional flame retardancy,recyclability,high impact resistance,escellent chemical resistance,and superior weather resistance.

Jiangsu Annaite New Material Technology Co.,Ltd. Consistently invests in core areas such as R&D,puality control and production.It ensures product excellence and consistency through three key measures:selecting premium raw materials,implementing scientific amd rigorous quality control during production and conducting thorough product inspections.It has achieved ISO9001. ANT thermoplastic panels have obtained multiple authoritative certifications including ROSH and REACH.

Becoming a long-term partner for our clients is our vision, customized service is our core competitive advantage.We are continuously improving our management expertise and production efficiency to deliver high-er-performing yet cost-effective products and services to our customers.



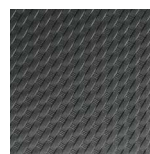
Texture



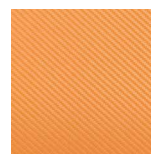
Coarse



Fine satin



Woven



Carbon



Leather

Color



Desert Sand



Khaki



Orange



Rose Pink

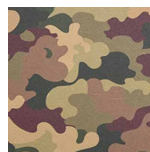


Burgundy

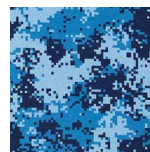
UV Printing



Camou 1



Camou 2



Camou 3



Python1



Python2

Thickness

0.8mm

1.0mm

1.2mm

1.5mm

2.0mm

2.5mm

3.0mm

3.5mm

5.0mm

6.0mm

Environment and Safety

ANT is committed to ensuring that its products can be manufactured, transported, stored, used, handled, and recycled with proper consideration for safety, health, and environmental protection. We support the safe handling of our products.

ANT-32

Product Introduction

ANT-32 is a thermoplastic sheet produced by a special extrusion process, suitable for various thermoforming equipment. It can be processed without fixtures, from heat guns and electric ovens to forced-air ovens. With extremely low heat shrinkage rate, it is an ideal DIY thermoplastic material for personalized processing and design.

Application

Holster, Magazine, Knife Sheath, Knife Handle, Sword Scabbard, Backpack Protection, Tool Box

Molding advantages

- 1.High modulus & high impact strength;
- 2.Low shrinkage rate during thermoforming process;
- 3.Suitable for punching and stitching assembly.

Physical Properties Sheet

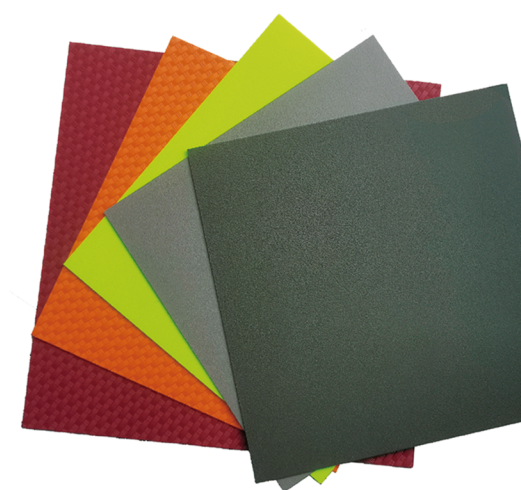
Property	Test method	Value	unit
Physical Properties			
Specific Gravity	ASTM D792	1.33	g/cm ³
Mechanical Properties			
Notched Izod Impact	ASTM D256	700	J/m
Modulus of Elasticity	ASTM D790	2400	MPA
Tensile Strength	ASTM D683	42	MPA
Flexural Strength	ASTM D790	65	MPA
Rockwell Hardness	ASTM D785	98	R
Flame Retardancy Rating			
0.71mm	UL94	5VA	

Processing Suggestions:

- 1.Conventional vacuum forming equipment;
- 2.Set the oven temperature to 160-170°C. After the temperature stabilizes, place the D32 sheet into the oven. Pay attention to observing changes in the oven during heating;
- 3.For a thickness of 1.5mm, heat for about 2 minutes; for 2mm, heat for 4 minutes, and so on.

The above provides processing data for customers for reference only.

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General Information

ANT-32 is a PVC/acrylate modified material. Its flame retardancy rating reaches UL94-5VA standard; it passes REACH and ROHS tests. It has good mechanical strength, excellent notch impact performance, does not crack in outdoor low-temperature environments, and is durable.

Customization Services

Specifications:
220*2440*1.0-1220*2440*6.0(mm)

Surface Finish:
Sand texture, lychee texture, water cube texture, pebble texture, etc.

Colors:
Various colors