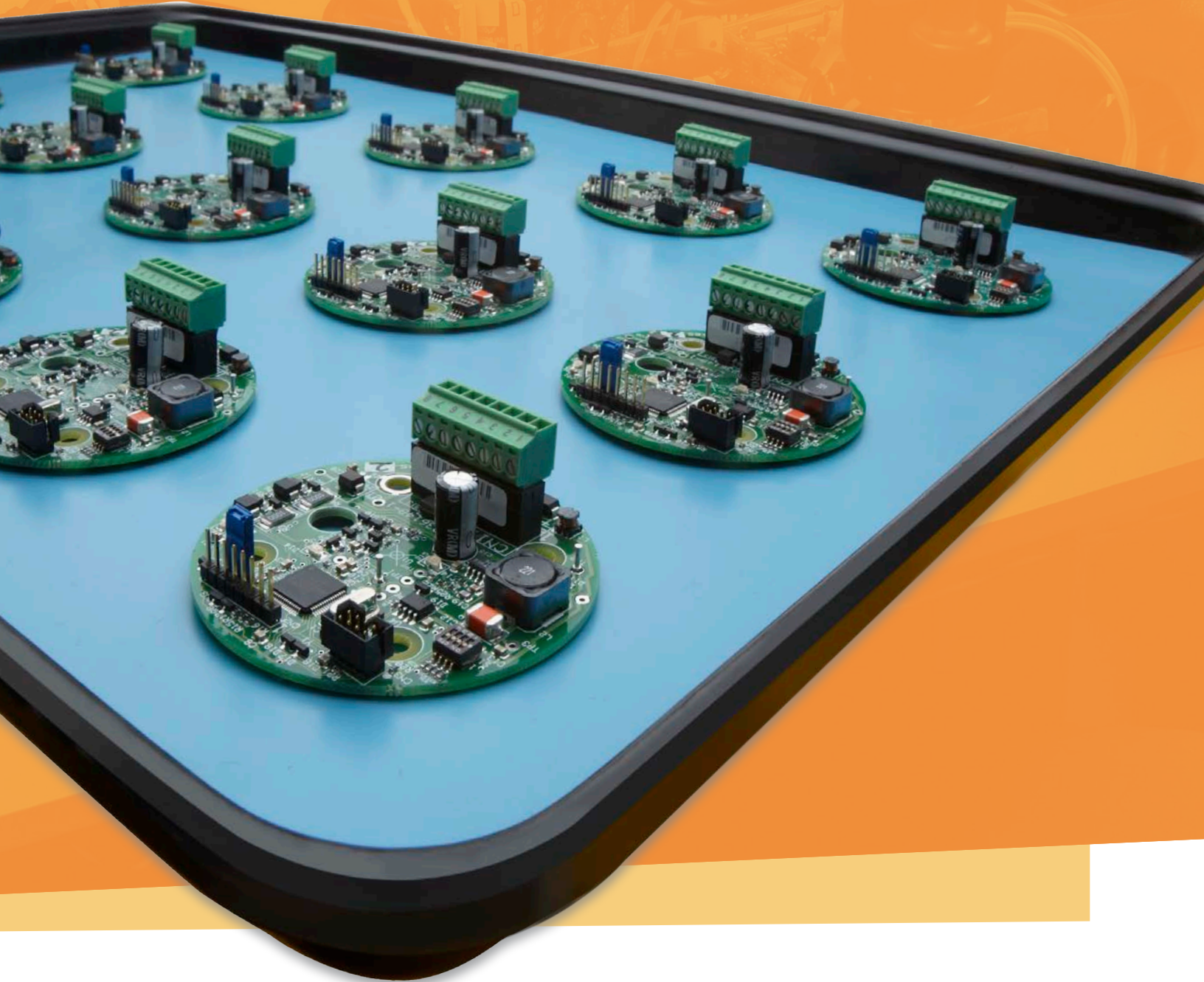




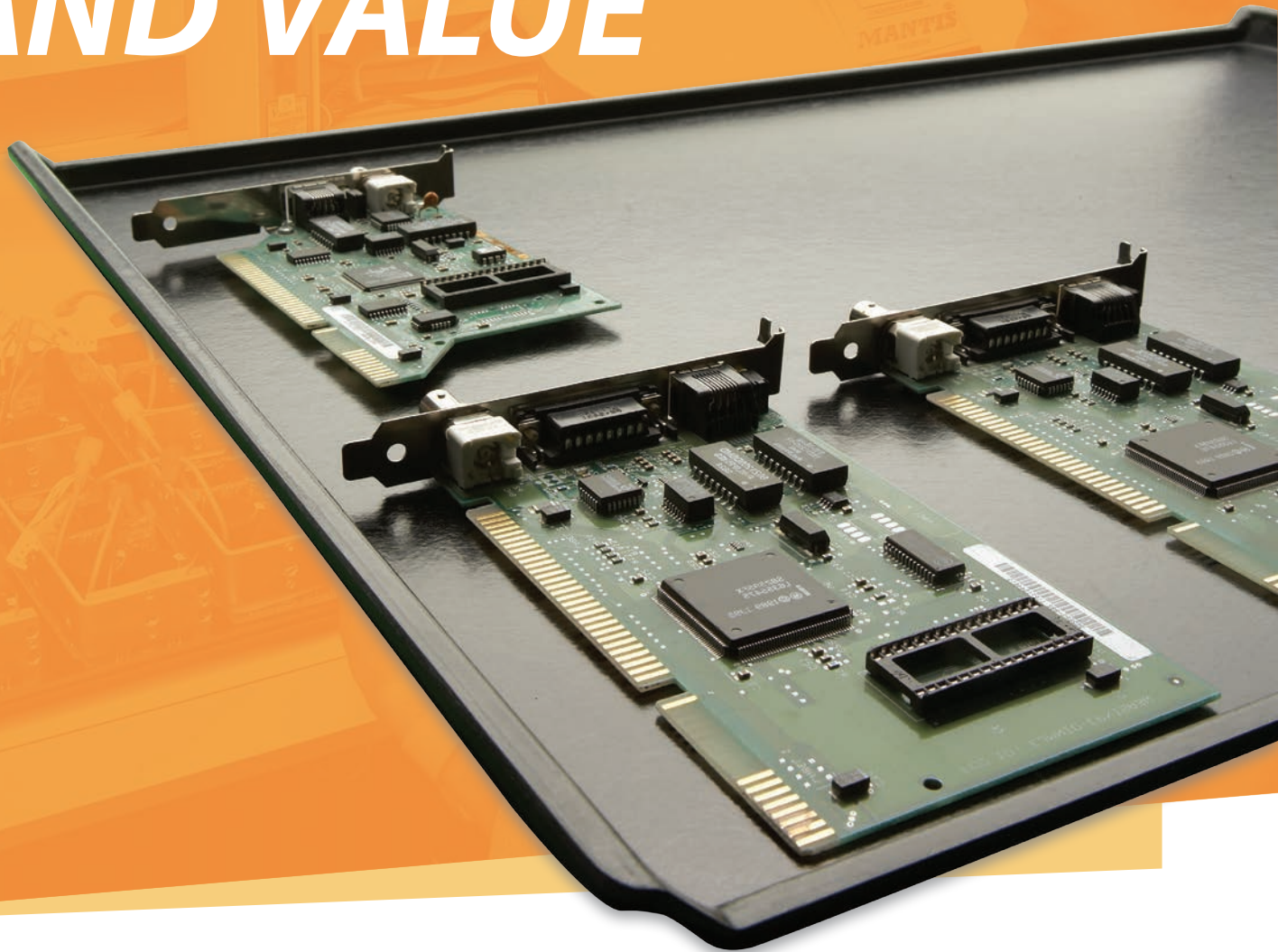
**ESD  
Safe**  
Product Line



Made in the  
**USA**

**MFG**  
TRAY

# OPTIMAL PERFORMANCE AND VALUE



MFG Tray Fibrestat products are molded from high-strength, glass-reinforced composites and are specifically formulated to dissipate electrostatic discharge. The fiber component provides strength and dimensional stability, while the thermoset resin provides specific chemical, electrical, and thermal properties.

The high conductivity/low electrical resistance of MFG Tray's composite material are permanent properties that ensure the safe transfer of electrostatic discharge away from sensitive microprocessors, assemblies, loaded circuit boards, and other electronic components for the life of the tray or container.



## **MFG TRAY FIBRESTAT COMPOSITES OFFER ESD PROTECTION OVER THE LIFE OF THE PRODUCT**

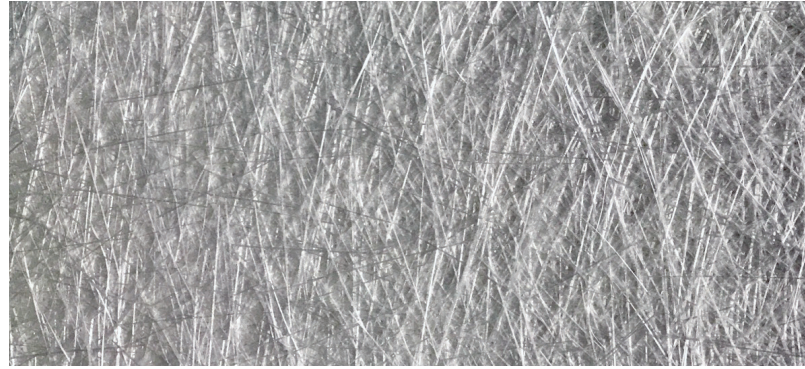
### **EXCEPTIONAL PERFORMANCE AND DURABILITY**

Thanks to their composite design, MFG Tray Fibrestat products offer inherent strength and weight-carrying capacity per individual container or tray, as well as exceptional stacking capability under heavy loads. They are ideal for machine integration and robotic applications and can be used in temperatures ranging from -60° to 250° F (-51° to 121° C) and intermittently in temperatures 300° F and higher. Fibrestat products are resistant to detergents, cutting oils, and alkaline solutions ranging from 3.0 to 10.0 pH. The standard formulation meets the requirements for a UL94 HB flammability rating.

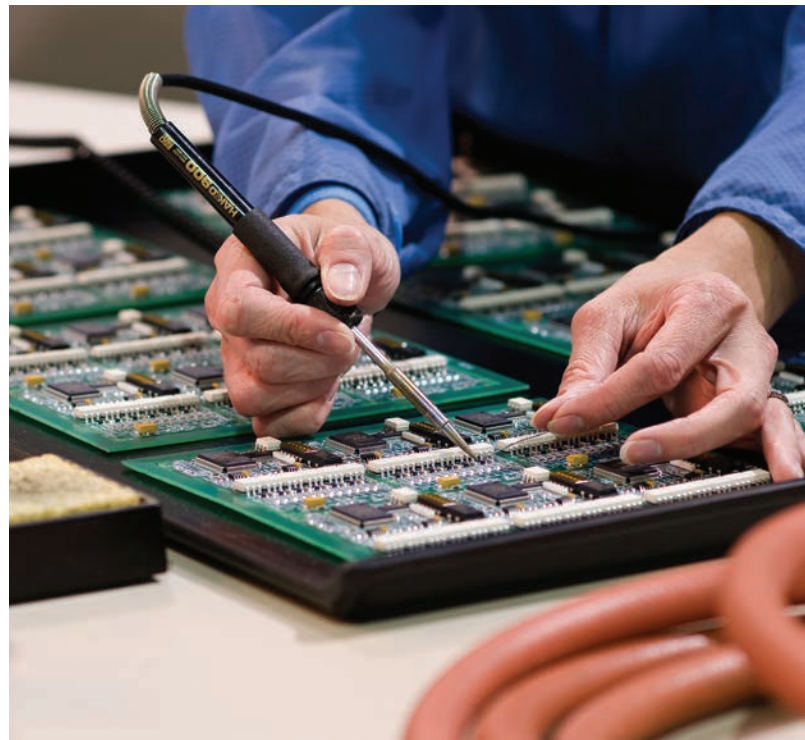
### **VARIETY OF STANDARD CONFIGURATIONS AND OPTIONS**

The MFG Tray Fibrestat line is comprised of a variety of products designed to safely and effectively convey, carry, accumulate, and store static-sensitive parts and assemblies. Optional designs such as wiring ports, removed ends, specialized hand-holds, tray mats, and other variations are also available.

MFG Tray's high-strength, glass-reinforced composite containers, trays, boxes, flats, and totes proudly serves the material handling (metalworking, plastics, and electronics assembly), food service, confectionery, farming, and pharmaceutical industries. The company continually develops customized solutions for specific material handling challenges and applications. Customers are encouraged to contact MFG Tray to discuss any unique handling and design requirements.



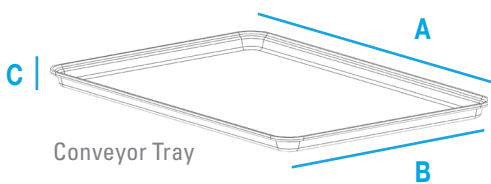
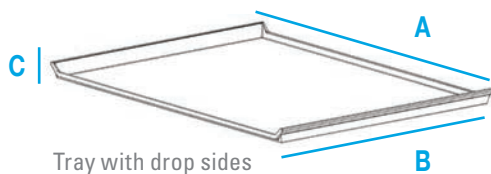
**STRENGTH AT THE CORE.** Fibers in MFG Tray products are multi-directional or random for optimal tensile and torsion strength of the finished part. Fiber lengths vary from 1" to 2". The composites can contain up to 35 percent of randomly oriented fibers by weight.



**SAFE, VERSATILE WORK SURFACES.** Safely and effectively convey, carry, accumulate, and store static-sensitive parts and assemblies.



**SAFETY FIRST.** MFG Fibrestat trays readily integrate with automatic conveyors and assembly lines while ensuring easy worker access for parts assembly operations. Strong composite construction ensures longevity.



## ESD ASSEMBLY TRAYS

- » Specifically designed for component assembly and for compatibility with conveyors or cart transport systems
- » Meets or exceeds ANSI/ESD standards for ESD protection
- » Can be continuously used in temperatures ranging from -60° to 250° F (-51° to 121° C)
- » Inherent fiberglass strength and durability

Product Name	Outside Top (inches)			Inside Bottom (inches)			Model No.
	A	B	C	A	B	C	
Tray with drop sides	24 1/2	21 1/8	1	23 1/2	20 3/8	7/8	204109
Tray with drop sides	25 1/2	22 1/2	1	24 1/2	21 3/4	7/8	205109
Tray with drop sides	24 1/2	22 1/2	1	23 1/2	21 3/4	7/8	206109
Tray with drop sides	27 7/8	22 3/8	1	26 7/8	21 3/4	7/8	207109
Tray with drop sides	23 1/4	20 3/8	1	22 5/8	19 1/4	7/8	208100
Tray with drop sides	24 1/2	21 1/2	1	23 1/2	20 3/4	7/8	209109
Tray with drop sides	27	21	1	26	20 1/4	7/8	210109
Tray with drop sides	26 1/4	22	1	25 1/4	21 1/4	7/8	211109
Tray with drop sides	28	21 1/2	1	27	20 3/4	7/8	212109
Tray with drop sides	26 1/4	23	1	25 1/4	22 1/4	7/8	213109
Tray with drop sides	24 1/2	23	1	23 1/2	22 1/4	7/8	214109
Tray with drop sides	34 1/4	21 3/8	1	33 1/4	20 5/8	7/8	215109
Tray with drop sides	27	20	1	26	19 1/4	7/8	217109
Tray with drop sides	27	20	1	26	19 1/4	7/8	217100
Tray with drop sides	22 1/2	20	1	21 3/8	19 1/4	7/8	218109
Pallet Tray	22	22	3/4	20 7/8	20 7/8	5/8	228000
Pallet	28	22	2 3/4				230300
Upper Pallet Tray	30	24	3/4	29	23	5/8	232100
Pallet	30	24	2 1/8				232300
Tray	16 3/8	12	1	15	10 1/2	5/8	302000
Tray	13 3/4	10 5/8	1	12 1/2	9 1/8	5/8	303000
Tray	20 3/8	15 1/8	1	18 3/8	13 1/4	3/4	304000
Tray	21 7/8	16	1	20 3/8	14 3/8	3/4	305000
Tray	18	14	1	16 1/2	12 1/2	3/4	318000
Tray	12 3/4	10 1/2	5/8	11 3/8	9	1/2	322600
Tray	20 7/8	12 3/4	5/8	19 3/8	11 3/8	1/2	325309
Tray	25 3/4	17 7/8	1 1/8	24 3/8	16 1/4	1	332000
Tray	25 3/4	8 3/4	1 1/8	24 3/8	7 1/2	1	333000
Tray	17 3/4	11 3/4	1	16 1/8	10 3/4	7/8	334000
Tray	17 3/4	9	1	16 1/8	7 3/4	7/8	335000
Tray	24	12 5/8	3/4	22 3/4	11 1/4	5/8	337009
Tray	27	12 1/2	3/4	25 3/4	11 1/8	5/8	338009
Tray	16	6	1	14 1/2	4 1/2	7/8	356000
Tray	20 7/8	14 1/2	1/2	19 1/2	13 1/8	1/2	375309

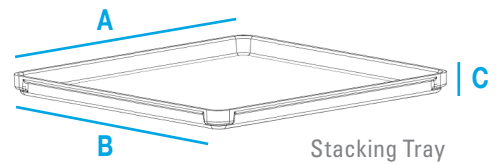
# ESD CONVEYOR TRAYS

- » Model 629000 features a textured bottom for improved contact with conveyors
- » Model 629100 features a smooth bottom for use with light-sensitive sensors
- » Smooth edges and rounded corners ensure safe handling
- » Wide selection of sizes for various components
- » Meets or exceeds ANSI/ESD standards for ESD protection
- » Can be continuously used in temperatures ranging from -60° to 250° F (-51° to 121° C)
- » Inherent fiberglass strength and durability



Product Name	Outside Top (inches)			Inside Bottom (inches)			Model No.
	A	B	C	A	B	C	
Tray with drop ends	29 7/8	23 7/8	1 1/2	28 7/8	22 7/8	1 3/8	600000
Tray with drop ends	29 7/8	23 7/8	2	28 7/8	22 7/8	1 7/8	600300
Tray	26	26	1 1/4	25 1/8	25 1/8	1	601209
Tray	24 1/4	24 1/4	1 7/8	23 1/4	23 1/4	1 3/4	602209
Tray	36 1/2	24 3/4	1 1/2	35 1/2	23 1/4	1 3/4	603209
Tray	30	30	1 1/4	29 1/8	29 1/8	1 1/8	604209
Tray	35 7/8	23 1/2	1 1/2	35	22 5/8	1 3/8	605109
Tray	25 1/4	19 1/4	1 1/8	23 1/2	17 1/2	1 1/8	606109
Tray	25 3/4	13 5/8	1 1/4	24 1/2	12 3/8	1 1/8	607009
Tray	30	20	2	28 5/8	18 5/8	1 7/8	608109
Tray	47 5/8	23 7/8	2 1/4	46 3/4	22 7/8	2	609009
Tray	36 1/2	17 1/2	1 5/8	35 5/8	16 5/8	1 1/2	610009
Tray	24 1/4	20 1/4	1 1/2	23 3/8	19 3/8	1 3/8	611009
Tray	28	28	1 1/2	27 1/8	27 1/8	1 3/8	612009
Tray	7 1/2	7 1/2	1/2	7 3/8	7 3/8	3/8	613000
Tray	39 1/2	19 1/2	2	38 5/8	18 5/8	1 7/8	614009
Tray	30	26	1 1/4	29 1/8	25 1/8	1 1/8	615009
Tray	30 1/2	24 1/2	1 7/8	29 5/8	23 5/8	1 5/8	617009
Tray	39	19	2	38 1/8	18 1/8	1 7/8	618009
Tray	40	28	1 1/2	39 1/8	27 1/8	1 3/8	619009
Tray	32	18	1 1/4	31 1/8	17 1/8	1 1/8	620009
Tray	20 5/8	16 5/8	1 1/2	18 1/8	14 1/8	1 3/8	622000
Tray	31	25	2 3/4	29 1/8	23 1/8	2 5/8	624000
Tray	24 1/4	20 1/4	1 1/8	23 1/4	19 1/4	1	626009
Tray	31	26	1 5/8	30	24 7/8	1 1/2	627009
Tray	22 1/2	14 1/2	2	20 3/8	12 3/8	1 7/8	628000
Textured-Bottom Tray	19 1/2	19 1/2	1 1/4	18 1/2	18 1/2	1 1/8	629000
Smooth-Bottom Tray	19 1/2	19 1/2	1 1/4	18 1/2	18 1/2	1 1/8	629100
Tray	22 7/8	15 1/2	1 1/4	21 7/8	14 1/2	1 1/8	636000

**WIDE SELECTION OF SIZES FOR VARIOUS COMPONENTS.** Trays are available in a wide range of dimensions to accommodate varying sizes of components and available workspaces.

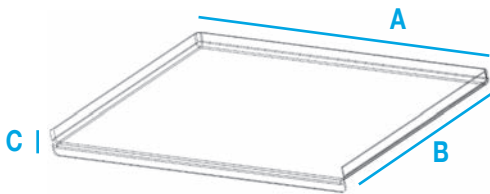


ESD Specialty Conveyor Tray  
Model No. 629000





**SAFE TRANSFER OF ELECTROSTATIC DISCHARGE.**  
Ideal for work-in-progress applications.



ESD 3-Sided  
Work Station Tray

## ESD 3-SIDED WORK STATION TRAY

Protect your tabletop when doing solder repairs. The generous 23 1/2" x 15 1/2" work surface is static dissipative and unaffected by hot solder. The three sides keep any stray solder from running off the work surface. The front lip locates against the table edge and gives unobstructed access to the work. Snaps can be mounted to ground the work surface. It is easy to clean and easy to store.

- » The tray lip holds firm against a counter or tabletop to restrict unnecessary movement
- » The fourth side is open for unrestricted access
- » Angled front to back, with a 1" height on three sides to contain spills
- » Made of durable composite material
- » Withstands temperatures from -60° F to 250° F continuous service or 300° F intermittent service
- » Can be steam cleaned
- » Resistant to hot solder and hot glue

Product Name	Dimensions (L x W x H, inches)			Model No.
	A	B	C	
Tray	24 1/2	16	1	157000

### ESD 3-SIDED WORK STATION TRAY SHOWN FROM VARIOUS ANGLES



This tray has a 3/4" lip on the front edge

## ESD TRAY MATS

- » Features a conductive bottom layer with static dissipative top
- » Durable dissipative mat is ideal for workflow tops

Product Name	Dimensions (L x W x H, inches)			Model No.
	A	B	C	
Tray Mat	19.18	25.90	.080	217-6005
Tray Mat	16.33	24.27	.080	332-6004
Tray Mat	18.50	18.50	.080	629-6002

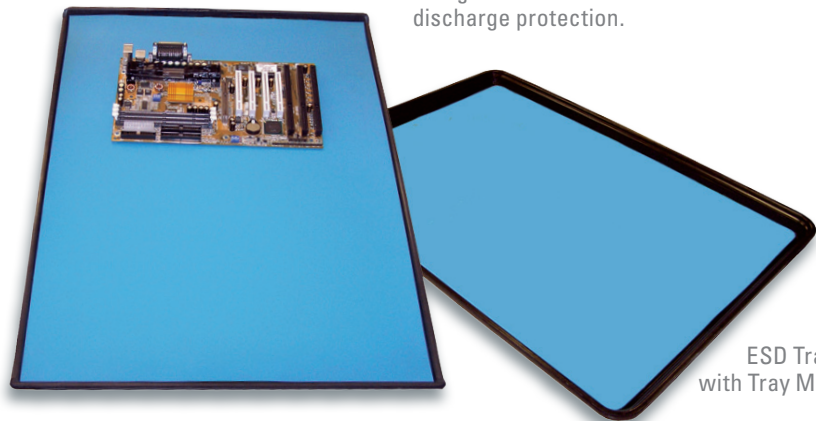
### STANDARD COLOR



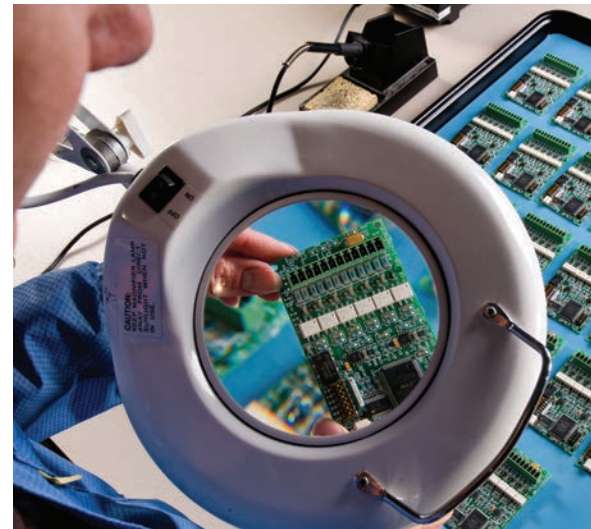
Blue

### MISC SPECIFICATIONS:

Hardness: Shore A, 60  
 Tensile: >1000 PSI  
 Charge decay: >300 %  
 Resistivity: 10<sup>5</sup> to 10<sup>11</sup> ohms/square  
 Charge decay (5kV-50V): 0.01 seconds



ESD Trays with Tray Mats



### ABSOLUTE ESD PROTECTION.

Designed to meet ANSI standards for static discharge protection.

## ESD COMPOSITE WORK SURFACE

- » Expressly designed for use in assembly, soldering and rework areas
- » Can be continuously used in temperatures ranging from -60° to 250° F (-51° to 121° C)
- » Comes complete with one snap, 15' grounding cord and dual plug receptacle
- » Resistant to chemicals, flux and hot solder including cutting oils, greases, mild acids and alkaline solutions within a pH rating of 3.0–10.0
- » Other sizes available upon request



ESD Composite Rigid Work Surface

Product Name	Dimensions (L x W x H, inches)			Model No.
	A	B	C	
Composite Work Surface	36	24	.060	9991662208

### STANDARD COLOR



Gray

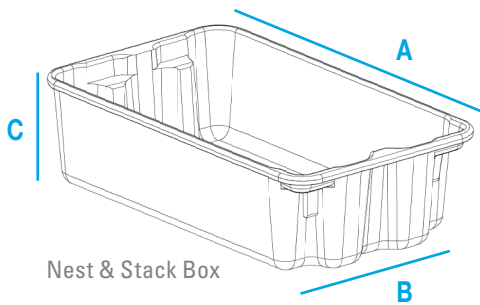
### MISC SPECIFICATION:

Resistivity: 10<sup>5</sup> to 10<sup>11</sup> ohms/square

## ESD NEST & STACK BOXES



**ENSURES SAFE PRODUCT TRANSFER.** Offers ESD protection over the life of the product.



Nest & Stack Box

- » Nest and stack design saves valuable space: stack when full, rotate 180 degrees and nest when empty
- » Smooth, radiused edges for safe, easy handling
- » Meets or exceeds ANSI/ESD standards for ESD protection
- » Can be continuously used in temperatures ranging from -60° to 250° F (-51° to 121° C)
- » Inherent fiberglass strength and durability
- » Optional lids protect parts during storage

Product Name	Outside Top (inches)			Inside Bottom (inches)			Model No.
	A	B	C	A	B	C	
Nest & Stack Box	23 1/2	16 1/8	10 1/4	20 7/8	12 7/8	10 1/4	705400
Lid for 705400	23 1/2	16 1/8	13/16				705419
Nest & Stack Box	42 1/2	20	14 1/4	35 7/8	17 3/8	14 1/8	780000
Nest & Stack Box	42 1/2	20	7 1/2	35 7/8	17	7 1/4	780100
Lid for 780000,780100	42 1/2	20	1 3/16				780110
Nest & Stack Box	17 7/8	10 5/8	5	14 1/8	9 1/2	4 7/8	780200
Lid for 780200	17 7/8	10 5/8	1 3/16				780210
Nest & Stack Box	19 3/4	12 1/2	6	16 1/4	11 3/8	5 7/8	780300
Lid for 780300	19 3/4	12 1/2	1 3/16				780310
Nest & Stack Box	20 1/2	12 7/8	8	16 3/8	11	7 7/8	780400
Lid for 780400	20 1/2	12 7/8	1 3/16				780410
Nest & Stack Box	24 1/4	14 3/4	8	18 1/2	12 3/4	7 7/8	780500
Lid for 780500	24 1/4	14 3/4	1 3/16				780510
Nest & Stack Box	25 1/4	18	10	20	16	9 7/8	780600
Lid for 780600,780800	25 1/4	18	1 1/4				780610
Nest & Stack Box	27 1/2	20	14 1/8	24 7/8	17 3/8	13 1/8	780700
Lid for 780700	27 1/2	20	1 1/4				780710
Nest & Stack Box	25 1/4	18	6	20	16	5 3/4	780800



Nest & Stack Box  
Model No. 780400



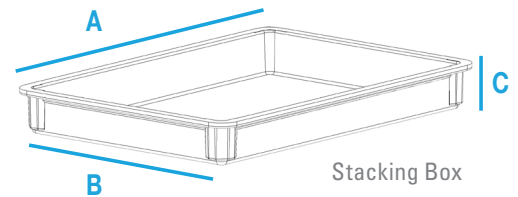
# ESD STACKING BOXES

- » Inherent strength enables boxes to be stacked several feet high with complete dimensional stability
- » Designed for parts containment and stacking
- » Wide selection of sizes
- » Meets or exceeds ANSI/ESD standards for ESD protection
- » Can be continuously used in temperatures ranging from -60° to 250° F (-51° to 121° C)

Product Name	Outside Top (inches)			Inside Bottom (inches)			Model No.
	A	B	C	A	B	C	
Stacking Box	24 1/2	21 1/4	2 5/8	23 3/8	20 1/8	2 1/2	220000
Stacking Box	27	21	2 5/8	26	20	2 1/2	221000
Stacking Box	18 3/4	11 7/8	1 3/4	17	11	1 5/8	804000
Stacking Box	25 3/4	17 3/4	1 1/8	24 3/4	16 3/4	1	806200
Stacking Box	23 3/8	12	1 1/4	21 1/8	11 1/8	1 1/4	808100
Stacking Box	23 3/8	12	3 1/8	21 1/8	11 1/8	3	808200
Lid for 808100, 808200, 808300, 808400	23 3/8	12	5/8				808210
Stacking Box	23 3/8	12	6	21	11	5 7/8	808300
Stacking Box	23 3/8	12	4 3/8	21	11	4 1/4	808400
Stacking Box	20 3/4	11 1/4	3 1/4	18 7/8	9 1/2	3 1/8	814100
Stacking Box	20 3/4	11 1/4	5	18 1/2	9 3/4	4 7/8	814200
Stacking Box	25 3/4	15 3/4	7 1/4	23 1/2	14	7 1/8	814300
Stacking Box	33 1/8	15 5/8	8	30 3/4	14 1/4	7 7/8	814400
Stacking Box	20 3/4	11 1/4	2 3/8	18 5/8	9 3/4	2 1/4	814700
Stacking Box	23	16 3/4	1 1/8	21 3/8	15 1/2	1	820100
Stacking Box	23 1/2	22 3/4	8 7/8	21 5/8	20 7/8	8 3/4	826000
Stacking Tray	22 3/4	22 3/4	1 1/8	21 1/4	21 1/4	1	827000
Features 4 side handles	Usable Space:		18	18	1		
Stacking Tray	32 1/4	24 1/2	1 1/4	30 1/2	22 3/4	1	829000
Features 4 side handles	Usable Space:		27 1/2	19 3/4	1		
Stacking Box	27 1/8	12	2 7/8	24 1/4	11 1/8	2 3/4	846100
Stacking Box	27 1/8	12	6 7/8	24	10 7/8	6 3/4	846200
Stacking Box	26	20	1 1/2	25 3/8	19 3/8	1 3/8	848000
Stacking Box	25 3/4	17 3/4	3	23 7/8	15 7/8	2 7/8	870000
Stacking Box	25 3/4	17 3/4	4 1/2	23 7/8	15 7/8	4 1/2	875000
Stacking Box	25 3/4	17 3/4	6	23 7/8	15 7/8	5 3/4	880000
Lid for 870, 875, 880	25 3/4	17 3/4	7/8				887000
Stacking Box	28	20	3	26	18 1/2	2 7/8	893100



**OPTIMAL PRODUCT PROTECTION.** Stacking feature facilitates parts containment and space-saving product handling and storage.



Stacking Box  
Model No. 870000



Stacking Box  
Model No. 220000

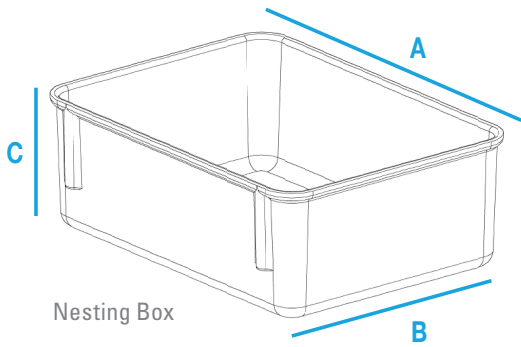


Stacking Tray  
Model No. 829000  
Features 4 side handles

# ESD NESTING BOXES WITH LIDS



**IMPRESSIVE STRENGTH.** Easy handling with complete ESD protection for sensitive parts.



Nesting Boxes with lids

- » Lids protect parts during storage and enable boxes to be stacked
- » Available in a variety of sizes
- » Smooth, radiused edges facilitate easy handling
- » Meets or exceeds ANSI/ESD standards for ESD protection
- » Can be continuously used in temperatures ranging from -60° to 250° F (-51° to 121° C)

Product Name	Outside Top (inches)			Inside Bottom (inches)			Model No.
	A	B	C	A	B	C	
Nesting Box	21 1/4	15	5	18 1/8	13 1/8	4 7/8	330000
Lid for 330000	21 1/4	15	3/8	18 3/4	14	1/4	330119
Nesting Box	20 1/4	12	5	17 3/4	10 3/8	4 7/8	331000
Nesting Box	20 3/4	15 3/8	5	17 7/8	13 5/8	4 7/8	336009
Nesting Box	16 1/2	12	10	14 7/8	10 3/8	9 7/8	903140
Nesting Box	22 5/8	17 1/4	14	20 1/2	15	13 7/8	912140
Nesting Box	22 3/8	17	10	20 1/2	15	9 7/8	912240
Lid for 912140, 912240	23	17 5/8	3/4				912110
Nesting Box	20 1/2	17	10 3/8	17 1/4	14 3/4	10 3/8	919100
Nesting Box	20 1/2	17	12	17 1/4	14 3/4	12	919200
Lid for 919100, 919200	20 1/2	17	5/8				919110
Nesting Box	11 3/4	8 3/4	4 1/8	11	8	4	920100
Lid for 920100	11 3/4	8 3/4	1/2				920110
Nesting Box	6 1/8	4 7/8	2 1/8	5 1/2	4 1/4	2	921100
Lid for 921100	6 1/8	4 7/8	1/4				921110
Nesting Box	9 3/4	6 1/8	2 1/8	8 7/8	5 1/4	2	922100
Lid for 922100, 926100	9 3/4	6 1/8	1/2				922110
Nesting Box	9 3/4	9 1/4	4 1/2	9	8 3/8	4 3/8	923100
Lid for 923100	9 3/4	9 1/4	1/2				923110
Nesting Box	9 3/4	9 1/4	2 1/8	8 7/8	8 3/8	2	924100
Nesting Box	9 3/4	6 1/8	4 1/2	9	5 1/4	4 3/8	926100
Nesting Box	22	16 1/2	4 1/4	19 1/8	14 5/8	4	929000
Nesting Box	12 3/8	9 3/4	2 1/8	11 1/2	8 7/8	2	930100
Lid for 930100	12 3/8	9 3/4	1/2				930110
Nesting Box	28 7/8	20 3/8	10	26 3/4	18	9 3/4	931000



Nesting Box  
Model No. 922100

## NEW! ESD ULTRA-LITE TOTES AND CONTAINERS



- » Meets or exceeds ANSI/ESD resistivity of  $10^4$  to  $10^7$  ohms/square
- » 40% lighter than standard products with trusted strength and durability
- » Lighter for more ergonomic handling and reduced shipping weight
- » Impervious to cutting oils detergents, mild acids, and alkaline solutions
- » High operating temperatures -60° to 250°F (-51° to 121°C)
- » Contact factory for MOQ requirements



MFG Tray ULTRA-LITE composite is 40% lighter than standard fiberglass and can withstand continuous industrial use while still retaining our trusted strength and durability.

# MANUFACTURING SOLUTIONS USING COMPOSITE MATERIAL



### MATERIAL HANDLING

Comprised of over 300 different material handling trays, containers, and wash boxes for material handling and processing solutions in an array of industries, including chemical, rubber, metalworking, machinery, electronics, transportation, and utilities.



### PHARMACEUTICAL

Highly functional and economical alternatives for vial trays, gel cap drying trays, and storage trays produced with formulations to meet and exceed the demanding use and storage requirements in the clinical marketplace.



### FOOD SERVICE

Extensive line of products designed for food storage, preparation, and merchandising. They safely handle items to be frozen or refrigerated and may be cleaned in conventional dishwashers or steam cleaned.



### CONFECTIONERY

MFG Tray has been a leading supplier of starch trays, holding trays, gum trays, and stock boxes for the confectionery industry for more than 45 years. These trays offer performance benefits for confectionery operations that can't be duplicated by other materials or manufacturers.



## CALL US FOR YOUR NEXT PROJECT

Our team enjoys developing customized solutions for tough material handling challenges and applications. Contact our friendly team to discuss any unique design or requirements.

Reinforced composites bring a new level of performance to material handling. Our trays and containers will work harder and smarter for you. **Trust MFG Tray for your tough jobs.**





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**Molded Fiber Glass Tray Company**  
TF 800-458-6050  
PH 814-683-4500  
FX 814-683-4504  
[www.mfgtray.com](http://www.mfgtray.com)



*A Molded Fiber Glass Company*



**WARNING:** This product can expose you to styrene, a chemical known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).