



PACTUMAX

INTERNATIONAL PTE LTD

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Welcome to our new issue of Pactumax Monthly Advanced Product Alert for the Year 2023 – keeping you informed of new product and materials advancements.

We will like to also introduce to you our latest wide range of products available from CarrLane & Reid Supply, etc.

Click on the hyperlink below to access our e-catalogs from our website to view more:

<https://pactumax.com/technical-resources/>

This month's featured items are **ANTI-STATIC PLATE PC (CC300E)** and **DELRIN® 150 SA**.

ANTI-STATIC PLATE PC (CC300E) is an engineering plastic material with excellent performance in static as well as possessing good electrical control transparency

DELRIN® 150 SA is a homopolymer acetal grade material and it comes in plate and rod form. The main advantages are high mechanical strength, stiffness, creep resistance and hardness.

Remember, Pactumax is *GROWING* – we are now your **One-Stop Source for all your materials and products' needs!**

ADVANCED PRODUCT ALERT OF THE MONTH

ANTI-STATIC PLATE PC (CC300E)

Manufactured by

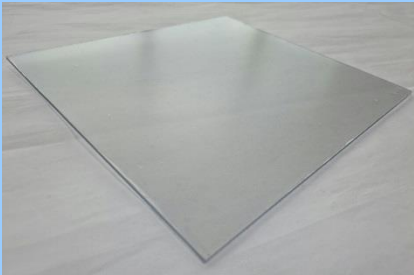


MITSUBISHI CHEMICAL INFRATEC CO.,LTD.

PRODUCT OVERVIEW

ANTI-STATIC PLATE PC (CC300E) is an engineering plastic material with excellent performance in static as well as possessing good electrical control transparency. Applications include Clean Room, Semiconductor Related Factories, OA Computers and Equipment covers, etc. This material is only available in “Clear” colour option.

ANTI-STATIC PLATE PC (CC300E)



PRODUCT COLORS

- Clear

ADVANTAGES

- Excellent Performance in static
- Good Electrical Control Transparency

APPLICATIONS

- Clean Room and Semiconductor Related Factories where Clean Environment is required
- IC Industry and OA Computer
- Equipment/ Machine Covers

TYPICAL PROPERTIES OF ANTI-STATIC PLATE PC (CC300E)

General Properties	Test Method or UL Test	ANTI-STATIC PLATE PC (CC300E) Typical Values
PHYSICAL		
Specific Gravity (g/cm ³)	JIS K 7112	-
Water Absorption, 24 hrs (%)	JIS K 7209	0.10
MECHANICAL		
Pencil Hardness	JIS K 7202	HB
Tensile Yield Strength (MPa)	JIS K 7162	65
Tensile Modulus (MPa)	JIS K 7162	2,280
Flexural Strength (MPa)	JIS K 7171	98
Flexural Modulus (MPa)	JIS K 7171	2,280
Charpy Impact Strength (KJ/m ²)	JIS K 7111	11.8
THERMAL		
Linear Thermal Expansion Coefficient (x10 ⁻⁵ 1/°C)	JIS K 7197	5
Heat Deflection Temp (°F/ °C)	JIS K 7191-2	291/144
Thermal Conductivity (w/m.K)	ASTM C177	0.224
Flammability Rating	UL94	HB
ELECTRICAL		
Surface Resistivity (ohm/sq)	JIS K 6911	10 ⁷
Total Light Transmittance (%) (5mm)	JIS K 7361-1	83
Dielectric Constant (10 ³ Hz)	JIS K 6911	-

DELTRIN® 150 SA

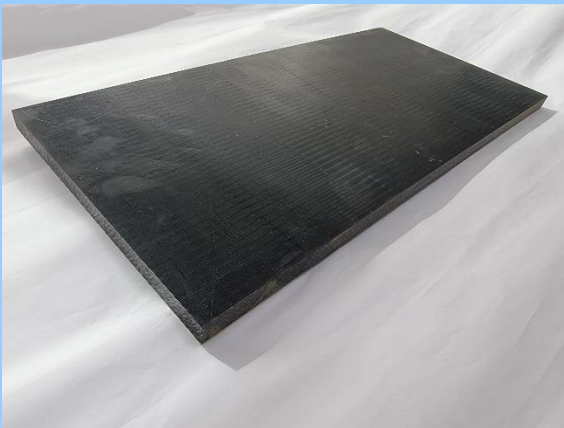
Manufactured by



PRODUCT OVERVIEW

DELTRIN® 150 SA is a homopolymer acetal grade material and it comes in plate and rod form. The main advantages are high mechanical strength, stiffness, creep resistance and hardness. In addition, it has low thermal expansion rate as well as high resistance against wear. **DELTRIN® 150 SA** is suitable for applications such as small diameter, thin-walled bushings and bearings, electrical components, valves, etc.

DELTRIN® 150 SA



PRODUCT COLORS

- Black
- White (Natural)

ADVANTAGES

- High Strength, Stiffness
- Dimensional Stability
- Very Low Moisture Absorption
- Good Wear and Abrasion Resistance
- Wide Range Chemical Resistance
- Easy to Machine

APPLICATIONS INCLUDE

- Industrial Assembly Fixture

TYPICAL PROPERTIES OF DELRIN® 150 SA

General Properties	ASTM or UL Test	DELRIN® 150 SA Typical Values
PHYSICAL		
Specific Gravity (g/cm ³)	D792	1.41
Water Absorption, 24 hrs (%)	D570	0.20
MECHANICAL		
Tensile Strength (psi)	D638	11,000
Tensile Strain at Break (%)	D638	30
Tensile Modulus of Elasticity (psi)	D638	450,000
IZOD Impact Strength, Notched (ft.lb./in)	D256	1
Rockwell Hardness	D785	M 88
THERMAL		
Coeff. Of Linear Thermal Expansion (in./in./ °F)	-	4.7 x 10 ⁻⁵
Heat Deflection Temp (°F / °C) @ 1.8 MPa	D648	250/121
Thermal Conductivity at 23 °C (BTU in./ [hr-ft ² . °F])	-	2.50
Melting Temperature (°F / °C)	-	347/175
Flammability Rating @ (3mm thickness)	UL-94	HB
ELECTRICAL		
Surface Resistivity (ohms/ sq)	ANSI / ESD STM 11.11	>10 ¹³
Volume Resistivity (ohm-cm)	{60093}	>10 ¹⁴
Dielectric Dissipation Factor Tan δ: at 100 Hz	D150	0.005

SLM Mounts

Manufactured by



Vlier Products' history of success can be tied to the precision engineering of each of the over 3,300 standard parts offered in our extensive catalog. In addition to meeting demands on time and on budget, Vlier holds ISO:9001 and AS9100 certifications, internationally recognized Quality Management Systems that hold the company to first-rate quality standards and give assurance to customers of this quality.

SLM Mounts



SLM Mounts are high-capacity, low profile mounts that are used for vibration control as well as shock protection applications. **SLM Mounts** are pneumatic elastomeric which are suitable for applications that has requirements for higher deflection isolators.

SLM Mounts is made of a mechanical bond design which possesses a positive locking system. The rigid wall in this design performs better isolation than air bladder that are traditionally made and designed. At 10 Hz, it delivers 98% horizontal isolation and 96% vertical isolation. Other applications include air compressors, optical equipment, precision tools, etc.

Special Features

- Air spring elastomeric isolator with integral heavy wall construction
- Deflection transfers shock to outer wall
- Will not bottom out
- Continued support and isolation even with no air pressure
- Low Maintenance
- Combined resiliency and air prevents high static deflection, drift or permanent set
- Extends machinery life
- Wide load range available

Specifications

- Natural frequency 3–5 Hertz (10 Hz. unpressurized)
- Transmissibility at resonance 8:1
- Resilient element Air and neoprene diaphragm
- Standard materials Steel and aluminum

Environmental Data

- Neoprene elastomer has an operating temperature range of -20°F to +180°F (-30°C to +82°C) and is resilient to oils, most solvents and ozone

Load Range

- Eight load ratings up to 19,200 lbs. per isolator

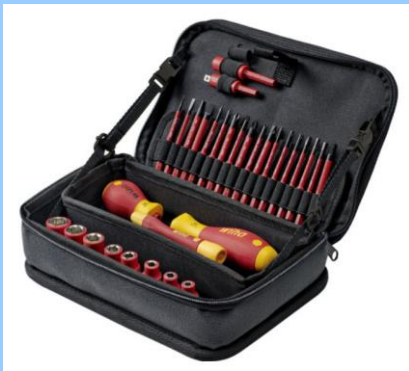
Tool set mechanic

Manufactured by



Wiha seeks to make daily life much easier for users with a product assortment of innovative hand tool solutions geared towards user needs. This is why Wiha develops, designs and manufactures products that meet the strictest requirements for quality, functionality, durability and ergonomic design. As a trusted, strategic partner of specialist retailers, Wiha offers a wide range of quality products for the professional segment.

Tool set mechanic



Tool set mechanic contains 33-piece tool set that is commonly used for mechanical applications. The case of the **Tool set mechanic** has a handle for carrying, sleeve pockets for tools as well as a zip to secure the case cover. The tool case overall has plenty of storage space to house tools in an orderly fashion.

Tool set mechanic comprises of SoftFinish® screwdrivers that come with different handle sizes which will provide comfort to users during usage. In addition, **Tool set mechanic** comprised of a ErgoStar L-duty key holder which is designed to be convenient for easy remove with a single twist.

Tool set mechanic has other sets with heavy-duty diagonal cutters that has opening spring and DynamicJoint® technology. This is made with a unique joint design for optimum hand force transmission.

Tool set mechanic includes other tools such as Water pump pliers with a Classic Handle and a FlipSelector bit set.

Application:

Selected stock for most common applications.

Design:

High-quality tools in practical tool bag with carrying handle. Bag format: 33 x 27 x 6 cm. Weight 2100 g.

For more information on our products and availability, please do not hesitate to contact our nearest Pactumax International office, or e-mail us at sales@pactumax.com. We look forward to hearing from you!

Highlights from the next issue of Pactumax Monthly Advanced Product Alert – VESPEL® SP-1/SP-21, ACRYLIC, PULLEY STOCK METRIC 3MM, 5MM AND 8MM HTD PITCH #FPA-G5-29 (Nordex), SOFT-FACED HAMMER SET "SAFETY" (wiha), Stay tuned!