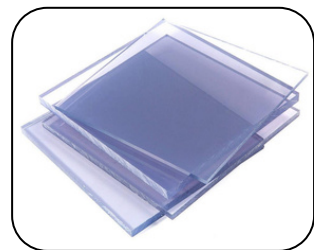
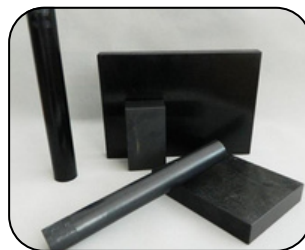
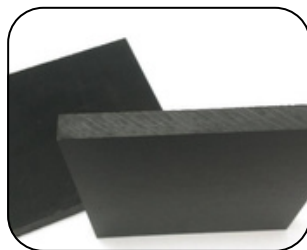
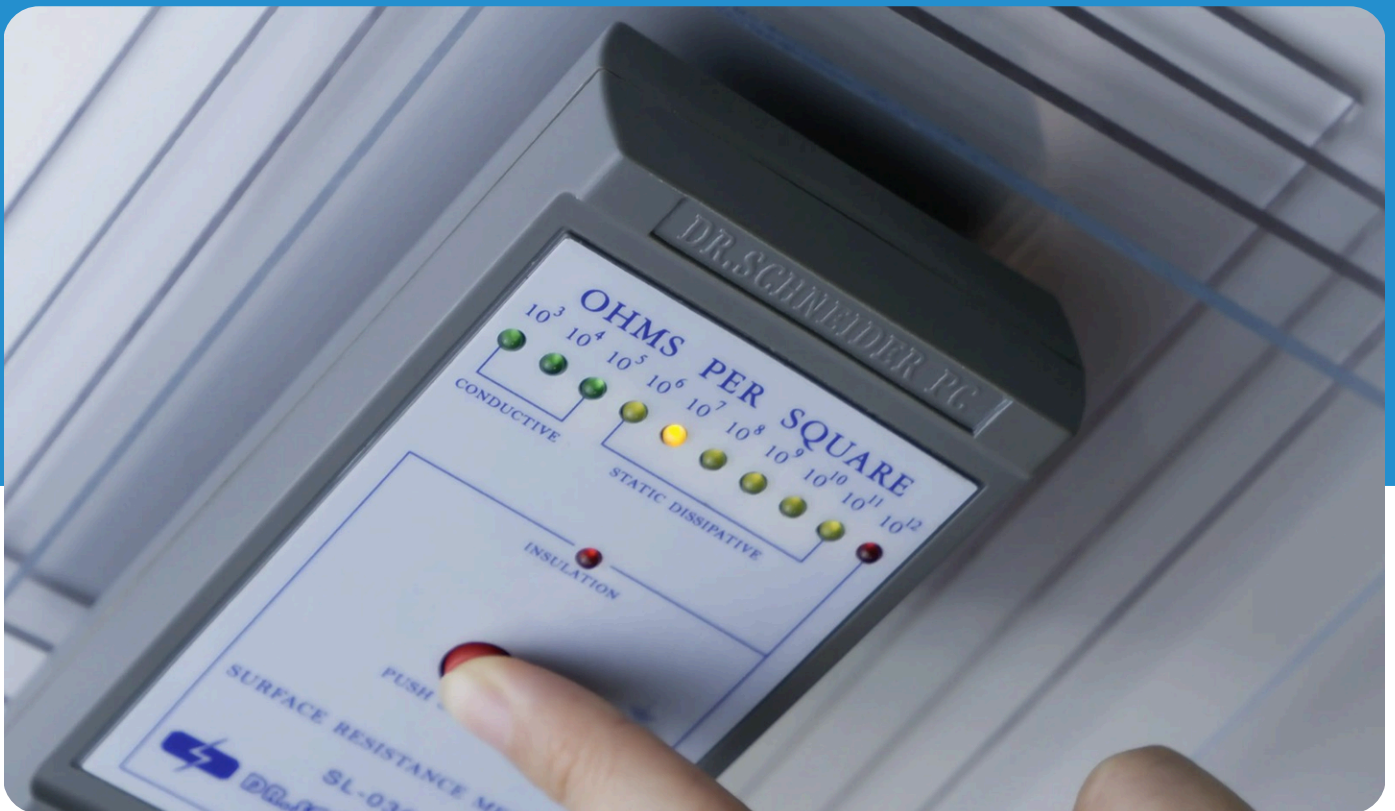


ESD Anti-Static

Plastic Sheets and Rods



Product Catalogue 2026

ESD Material Plastics Sheets, Rods, Tubes and Machining Parts

Company Profile

Chennai Polyplast is a trusted supplier of engineering and industrial plastics, with over 25 years of experience. Based in Chennai, we ensure ready stock availability, fast delivery, and reliable material support for diverse industrial needs.



WHY CHOOSE US?

We combine deep industry knowledge with a strong inventory network to deliver materials when you need them most.

Our focus on responsiveness and precision ensures smooth procurement without delays. With a commitment to quality and service, we help businesses operate efficiently and reliably.

A Trusted Stockists of ESD Products

OUR MISSION

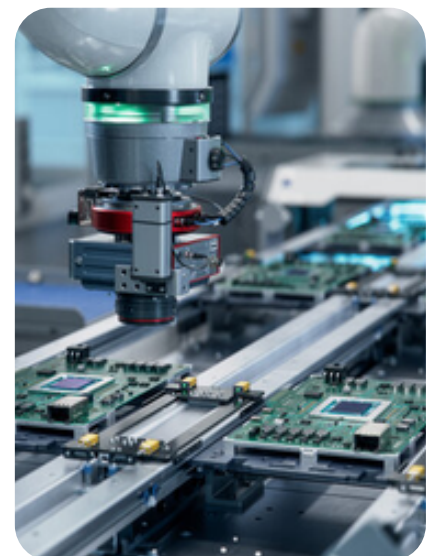
To deliver reliable, timely, and efficient plastic solutions with a focus on quality and long-term partnerships.

OUR VISION

To be the preferred industrial plastic partner, known for consistency and trust.

INDUSTRIES

Semiconductor, Automotive, Electrical, Aerospace, Defense, Medical, Chemical, Logistic, Printing, etc.



ESD / Antistatic Bakelite



ESD/Antistatic Bakelite Sheet is a kind of antistatic materials which is added anti-static agents in the production of Bakelite sheet, and effect Bakelite to achieve the best antistatic performance. Substrate is phenolic resin and electric grade bleached wood pulp paper . ESD/Antistatic Bakelite sheet provides a uniform anti-static value. The surface and volume resistivity value is $10^6-10^9\Omega$. And the antistatic value will not changed after machining or surface grinding.

Key Features & Benefits

- Extremely stable anti-static properties
- Good mechanical strength
- Good anti-static properties
- Good intermediate electrical insulation, non-conductive
- Resistance to organic solvents

Applications

- Mobile phone test fixture, SMT technology countertops, PCB drilling.
- The semiconductor test fixture, semiconductor crystal manufacturing equipment parts.
- The wafer processing jig, sensitive electronic components, the hard disk drive means.
- The printed circuit boards, high precision automated fixtures.
- The installation of electronic equipment, fixtures, etc

Specification

THICKNESS	COLOR	SIZE
3-30mm	Black	1020 x 1220mm 1030 x 2070mm 1220 x 2060mm

ESD / Antistatic G10 / FR4 Sheet



ESD Antistatic G10/ FR-4 offers users a number of important advantages over other ESD products. G10/ FR-4 Anti-static laminated sheet is made from electrical glasscloth or glass mat that impregnated with epoxy resin, high temperature resin and anti-static resin under pressure, with high mechanical strength, heat resistance, with good anti-static permeability.

Key Features & Benefits

- The overall anti-static value for Antistatic fiber glass Sheet is $10^6-10^9\Omega$;
- Good heat resistance and moisture resistance;
- Low water absorption, not easily deform;
- High mechanical property and excellent processing performance;
- Maximum temperature resistance 180°C;
- (Warpage): $\leq 0.3\%$ (more than 10T)
- (Thickness tolerance): $\pm 0.1\text{mm}$

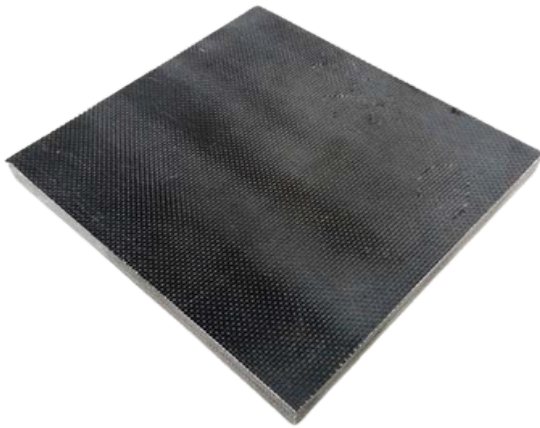
Applications

- Mobile phone test fixture, SMT technology countertops, PCB drilling.
- The semiconductor test fixture, semiconductor crystal manufacturing equipment parts.
- The wafer processing jig, sensitive electronic components, the hard disk drive means.
- The printed circuit boards, high-precision automated fixtures.

Specification

THICKNESS	COLOR	SIZE
3-50mm	Black	1020 x 1220mm 1220 x 2440mm

ESD /Antistatic Ricocel Sheet



RICOCEL is the industry-leader in Antistatic (ESD) Solder Pallet materials with excellent heat resistance, stable antistatic properties, machinability, durability and flux resistance. RICOCEL has proven to be one of the most, if not the most reliable, long-lasting, cost-efficient material for making PCB soldering pallets, and it can be found in service at most major CEMs.

Key Features & Benefits

- High resistance to most fluxes, produces very little or no loose glass-fibers over prolonged use that can contaminate solder-pot or cause bridging of fine-pitch circuitry.
- High mechanical strength for thinner walls in the pockets of selective wave soldering pallets - enables better component shielding, lowers chances of wall breaks which enhances pallet life, thus lowers tooling costs and risk for selective solder pallets.
- High temperature tolerance for Lead (Pb) free Wave soldering and Reflow soldering, over sustained use.
- Very stable Electro-Static Dissipative (ESD) property even at soldering temperatures compared to other major brands.
- Washable with water and mild detergent or IPA for simple maintenance of pallets.
- Good machinability and low wear-out rate of cutting tools compared to other pallet materials.

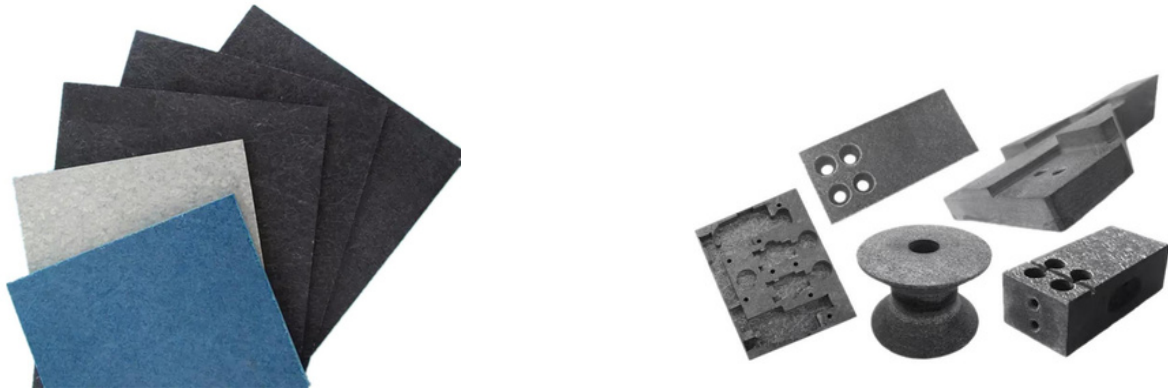
Applications

- Ideal for all types of Soldering pallets, wave solder pallets, SMT solder pallets, SMT solder fixtures
- Dip, Wave, Reflow, hand-soldering jigs.
- Pallet accessories - component clamps, top-covers, etc.

Specification

THICKNESS	COLOR	SIZE
3-30mm	Black	1020 x 1220mm 1220 x 2440mm

ESD/Antistatic Durostone sheet



Antistatic Durostone is a kind of composite made from fiberglass and high mechanical antistatic resin, anti-static and with good dimension stability. It can keep its mechanical strength, smoothness and original color when continuously used under the temperature of 280°C (max. working temperature below 385 degree 10~20sec). It's applicable in ROHS appliance production line under high temperature continuously

Key Features & Benefits

- Low thermal conductivity, fire resistance, good dimension stability, little deformation.
- Working temperature 260°C; With a stable anti-static function, overall anti-static value is $10^6-10^9\Omega$.
- The highest working temperature could reach 350°C, Chemical resistance.

Applications

- Automatic insertion/ Hand Cartridge of electronic components.
- Wave soldering, Reflow
- Solder paste screen printing,
- SMT surface mount online test

Product Properties & Specifications

TECHNICAL PARAMETERS	RESULTS
Color	Black
Density (g/cm ³)	1.9
Flexural strength/Bending resistance; Three vertical support (Mpa)	360
Water absorptions/ Water permeability (%)	<0.20
Coefficient of linear expansion (10 ⁻⁶ k)	13
Thermal Conductivity (W/mok)	0.25
Maximum working temperature (°C)	350
Standard working temperature (°C)	260
Overall impedance (ohms)	10^6-10^9
Heat/Heat capacity (J/Kgk)	930

THICKNESS	COLOR	SIZE
3-30mm	Black, Grey, Blue	1020 x 1220mm 1220 x 2440mm

ESD /Antistatic POM Sheet & Rod



ESD Static Dissipative Acetal POM is a kind of static dissipative material that is made by POM acetal copolymer. It provides stable and uniform antistatic value. The surface and volume resistivity values are $10^6 - 10^9 \Omega$. ESD POM sheet and rod widely used in jigs, fixtures, wafer processing components, and other electric parts which need static control.

Key Features & Benefits

- Stable anti-static performance
- Good wear resistance, high rigidity, high hardness
- Good mechanical properties, does not crack during processing
- Good self-lubricating properties
- Non-absorbent, stable dimension
- High creep resistance, Good fatigue resistance
- The dielectric constant and dielectric loss only changed a little when working in a wide frequency and temperature range, it maintained a good arc resistance.

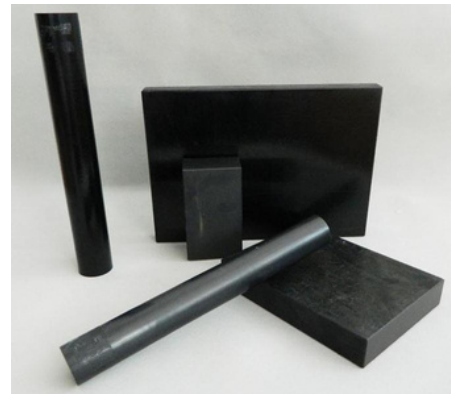
Applications

- Semiconductor test fixture, semiconductor crystal manufacturing equipment parts
- The wafer processing jig, sensitive electronic components, the hard disk drive parts
- The printed circuit boards, high precision automated fixtures
- The installation of electronic equipment, fixtures, rails, trays, pads, bushings, linings, wheel roller, etc.

Specification

PRODUCT	THICKNESS / DIAMETER	COLOR	SIZE / LENGTH
POM Sheets	5 - 150mm	Black, Beige, White	610 x 1220mm 1250 x 2020mm
POM Rods	Dia 6-80mm	Black, Beige	1M length

ESD /Antistatic PA6 Nylon Sheet & Rod



ESD Static Dissipative PA6 Nylon is made from extruded PA6 Polyamide Nylon. With a stable and uniform static value ranging from 10^6 to $10^9\Omega$, our ESD Static Dissipative PA6 Nylon ensures consistent performance in any environment. Its unique composition enables it to maintain its antistatic properties even after undergoing rigorous machining or surface grinding processes. ESD PA6 Nylon safeguards sensitive equipment and components, reducing the risk of damage caused by electrostatic events.

Key Features & Benefits

- Good mechanical strength, high stiffness, high hardness, high toughness
- Good aging resistance
- Good mechanical damping ability
- Good sliding properties
- Excellent wear resistance
- Good machining performance, while effective for precision control, no creep phenomenon
- Materials limit: No acid-resisting, especially no resistance from mineral acid, and no UV resistance, and un flame retardant.

Applications

- Semiconductor test fixture, semiconductor crystal manufacturing equipment parts
- The wafer processing jig, sensitive electronic components, the hard disk drive parts
- The printed circuit boards, high-precision automated fixtures
- The installation of electronic equipment, fixtures, rails, trays, pads, bushings, linings, wheel roller, etc.

Specification

PRODUCT	THICKNESS / DIAMETER	COLOR	SIZE / LENGTH
PA6 Sheets	6 - 50mm	Black	600 x 1000mm 620 x 1250mm
PA6 Rods	Dia 6-50mm	Black	1000mm length

ESD /Antistatic PTFE Sheet & Rod



ESD PTFE sheet is made of high-quality suspended fine powder PTFE resin, with high temperature and wear-resistant modified filling materials added. At the same time, anti static filling materials are added to the PTFE fine powder resin to achieve anti-static requirements. PTFE is an important material in a variety of fluorine metallurgy. PTFE exhibits excellent chemical properties.

Key Features & Benefits

- Stable anti-static performance: $10^6 - 10^9 \Omega$
- High temperature resistance with 240°C-260°C
- Excellent electrical insulation
- Good aging resistance
- Excellent self-lubricating performance
- Good heat resistance
- High wear resistance
- Excellent corrosion resistance
- Low water absorption

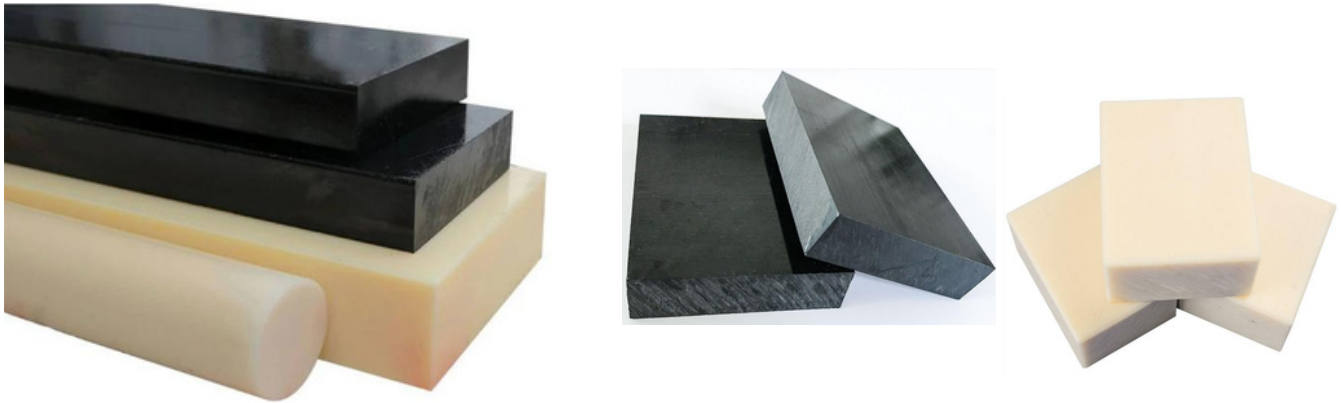
Applications

- Seals, gaskets, ring materials in bearings, valves, chemical pipelines
- Mechanical components, equipment container lining, and insulation layer of power and signal lines
- Wear resistant plate/seat, electrical and insulation parts, Widely used in industries such as corrosion resistance, oil and gas, petrochemicals, chemicals, instrumentation, and computers
- Used for high insulation electrical components, high-frequency resistant wire and cable sheaths, corrosion-resistant chemical appliances, high cold resistant oil pipelines, etc

Specification

PRODUCT	THICKNESS / DIAMETER	COLOR	SIZE / LENGTH
PTFE Sheets	6 - 120mm	Black	600 x 600mm 1000 x 1000mm 1200 x 1200mm
PTFE Rods	Dia 6-150mm	Black	1000mm length

ESD /Antistatic ABS Sheet & Rod



ESD ABS is a kind of antistatic materials which is made by ABS. It is also named Antistatic Acrylonitrile – butadiene – styrene copolymer board, the basic material is Acrylonitrile Butadiene Styrene. The working temperature is -20-100°C. ESD ABS provided stable and uniform antistatic value. The surface and volume resistivity value is $10^6-10^9\Omega$. And the antistatic value will not change after machining or surface grinding. This materials is suitable for automatic lathe machining, especially for the manufacture of precision parts.

Key Features & Benefits

- Antistatic ABS Sheet has the same antistatic value $10^6-10^9\Omega$ for all the parts
- There is no change for antistatic value after machining and surface wear
- Resistant to organic solvents, insoluble at room temperature, with good performance in low temperature, operating temperature is -40°C-90°C
- Wear resistance and with excellent resistance to creep, High mechanical strength, High rigidity and hardness
- Good flow properties, Non-absorbent, High mechanical strength, Excellent processing performance, No deformation after

Applications

- Scope of application: Semiconductor, LCD, Electronic equipments, Industrial machinery, Fixture equipments etc.
- Application: Electronic equipments installment, Fixture, Guide rail, Pallet, Liner, Scaleboard, vehicle wheel, Idler wheel etc.

Specification

PRODUCT	THICKNESS / DIAMETER	COLOR	SIZE / LENGTH
ABS Sheets	6 - 100mm	Beige, Black	620 x 1250mm
ABS Rods	Dia 6-300mm	Beige, Black	1000mm length

ESD /Antistatic Acrylic Sheet



Anti-static acrylic sheet also known as electrostatic dissipative (ESD) acrylic, it is a premium quality acrylic sheet coated with clear static dissipative coating which prevents charge generation on the sheet surfaces. Because the coating offers a permanent solution, ESD acrylic is not affected by humidity like traditional plexiglass that used temporary anti-static coatings. Antistatic acrylic sheeting has incredible strength and resistance to abrasions and chemicals, and can be fabricated into a wide array of shapes and sizes.

Key Features & Benefits

- Excellent Anti-static with 10^6 $10^9\Omega$
- Light-weight
- Excellent optical properties
- Look beautiful, very smooth, light transmission rate of more than 90%
- Good chemical resistance
- Good surface hardness
- Good scratch resistance

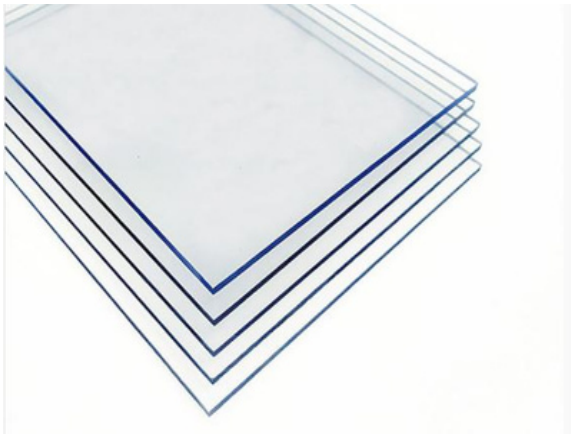
Applications

- Machine covers
- Enclosures
- Cabinets
- Desiccators
- Windows and Doors
- Display stands

Specification

THICKNESS	COLOR	SIZE
3-30mm	Clear	1000 x 2000mm 1220 x 2440mm

ESD /Antistatic PC Sheet



ESD/Antistatic PC Sheet Materials is Polycarbonate, abbreviation PC, it's a clear plastic sheet which is a premium quality polycarbonate sheet which has been surfaced with coating Technologies, forming a antistatic layer. The surface resistance value of 10^6 — $10^9 \Omega$ is excellent anti-static function. This unique technology prevents charge generation on the sheet surfaces, thereby controlling particulate attraction and preventing electrostatic discharge (ESD) events, and meet the special needs of high tech industry.

Key Features & Benefits

- Superior impact resistance and high temperature performance outstanding
- The high surface hardness and superior scratch resistance
- Look beautiful, very smooth, light transmission rate of more than 85%
- The flame retardant rating of UL-94: V0 ~ V2
- Excellent fire performance
- Permanence in static dissipation performance
- Good chemical resistance
- Since it resists charge build-up it does not attract contaminants, so it can also help prevent contamination-related rejects in ultra-clean manufacturing operations.

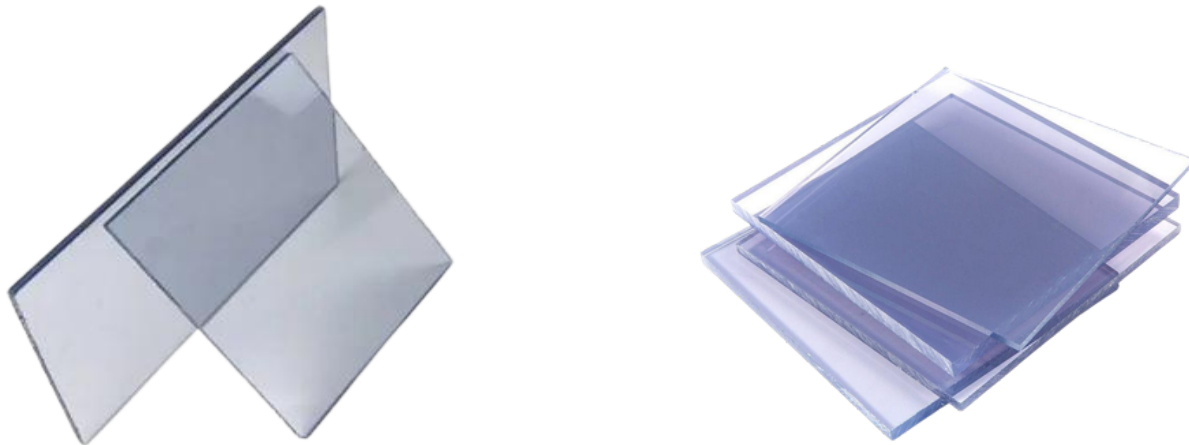
Applications

- Anti-static PC sheet is widely used in the semiconductor industry, LCD industry, electronics equipment and microelectronics equipment industry.
- Apply for the construction of clean room plant in optical manufacturing, pharmaceutical industry and bio-engineering industries .
- Shadowing cleanroom equipment, clean room space separated, clean equipment, observation windows and process equipment enclosures, glass micro-environment.
- Electronic test fixture and precision instruments.

Specification

THICKNESS	COLOR	SIZE
2 - 20mm	Clear	1000 x 2000mm 1220 x 2440mm

ESD /Antistatic PVC Sheet



ESD antistatic PVC Sheet known as anti-static polyvinyl chloride sheet, the base material is PVC (polyvinyl chloride). Through the coating technology, on the basis of perfectly retaining the properties of PVC such as corrosion resistance and flame retardancy, it also has excellent anti-static function. ESD anti-static PVC board has the same thermal processing performance and chemical resistance as hard PVC. Moreover, it has excellent flame retardant (self-extinguishing) durability, can maintain antistatic performance for a long time, surface inherent resistance $10^6-10^9\Omega$, light transmittance above 73%.

Key Features & Benefits

- Outstanding chemical resistance
- High impact resistance
- Excellent anti-static function
- Surface resistivity with $10^6\sim 10^9\Omega$
- High surface hardness
- Excellent scratch resistance
- Good performance, transparency over 73%;
- Excellent flame resistance with UL-94: V-0 grade.

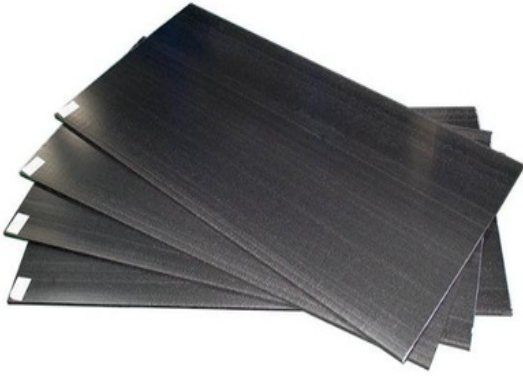
Applications

- Equipment cover
- Dust-free box
- Clean room space
- Testing fixture
- Electrolytic tank
- Storage tank
- Machine cover

Specification

THICKNESS	COLOR	SIZE
2 - 15mm	Clear	1220 x 2440mm

ESD /Antistatic PEEK Sheet & Rod



ESD PEEK is antistatic, nano carbon fiber reinforced PEEK which shows an extraordinary mechanical strength, toughness, flexural strength, torsional strength. ESD PEEK exhibits excellent chemical resistance, very good dielectric properties. Our ESD PEEK sheet has excellent antistatic properties, surface resistivity 10^6 - $10^9\Omega$ /sq, uniform surface resistivity, and the temperature resistance up to $+250^\circ\text{C}$ -260°C and a very good resistance to all kinds of radiation.

Key Features & Benefits

- Good static resistivity
- Very high mechanical strength
- Very high rigidity
- High thermal stability
- Very high dimensional stability
- Very high radiation resistance
- Very high hydrolysis resistance

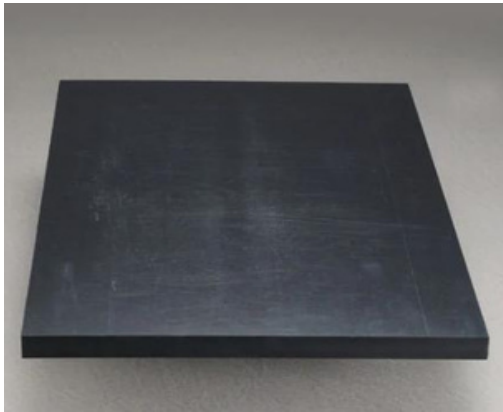
Applications

- Burn-in & Test Sockets
- Wafer Handling
- Hard Disk Drive
- Testing Fixture & tools

Specification

PRODUCT	THICKNESS / DIAMETER	COLOR	SIZE / LENGTH
PEEK Sheets	5 - 20mm	Black	610 x 1220mm 1250 x 1000mm
PEEK Rods	Dia 10 - 80mm	Black	1000mm length

ESD /Antistatic PEI Sheet & Rod



Antistatic PEI (Ultem) is an antistatic material modified with PEI as the base material. It not only keeps the good mechanical properties, heat resistance and creep resistance of PEI, but also increases the antistatic effect in high temperature environment. The antistatic value is 10^6-10^9 .

Key Features & Benefits

- High rigidity and strength
- High surface hardness
- High mechanical properties
- Excellent dimensional stability
- High temperature resistance
- Stable anti-static performance: $10^6 - 10^9 \Omega$
- Good electrical insulation
- High Radiation resistance
- Good Flame retardant
- Less smoke combustion

Applications

- Clean room and semi conductor industry
- Electronics and Electrical industry

Specification

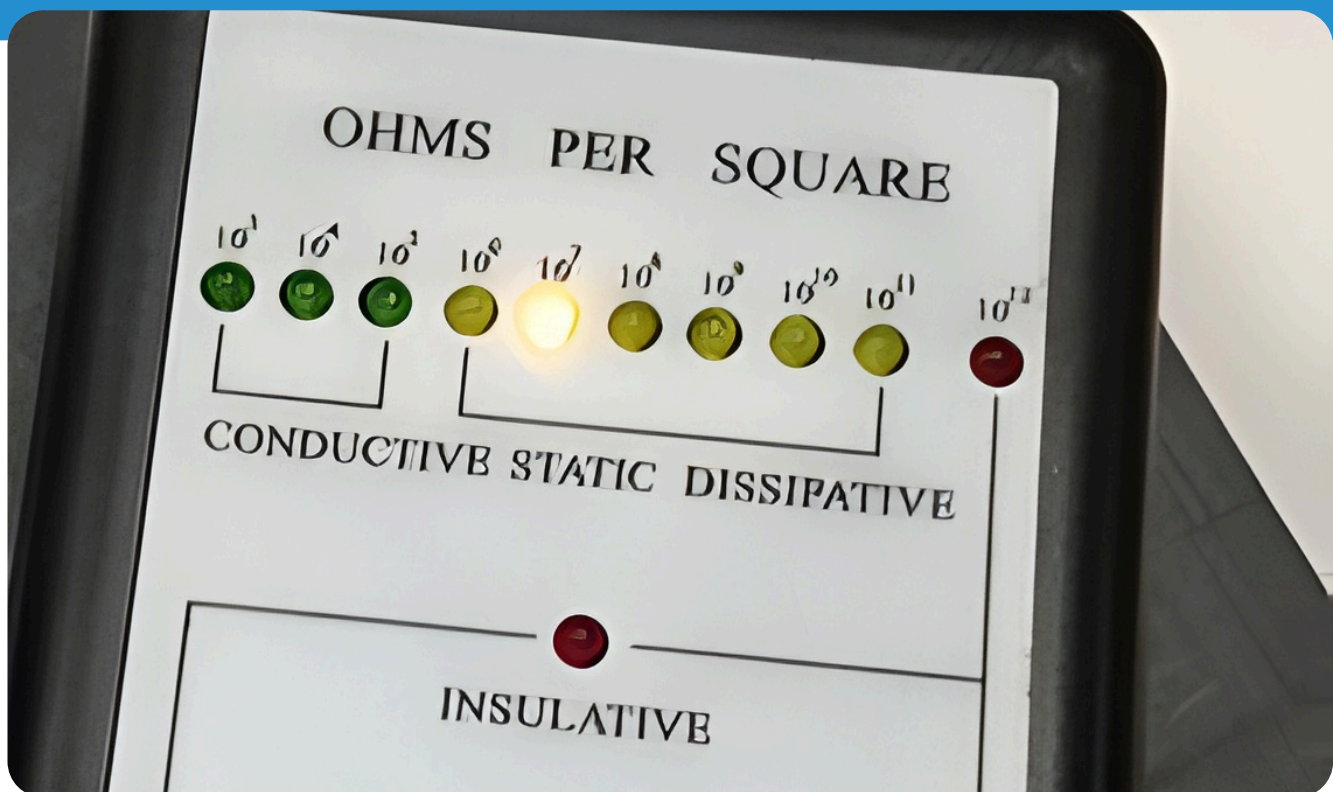
PRODUCT	THICKNESS / DIAMETER	COLOR	SIZE / LENGTH
PEI Sheets	5 - 20mm	Black	
PEI Rods	Dia 10 - 80mm	Black	1000mm length

Delivering quality materials with consistency, reliability, and speed, Chennai Polyplast is committed to ensuring seamless supply for diverse industrial needs. Backed by strong inventory and industry expertise, we provide dependable service and timely support to our clients.

We focus on building long-term partnerships through trust, performance, and a customer-first approach, making us a reliable partner in industrial plastics.



Scan me for more
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