



SWEES ENGINEERING

Complete Solutions to Engineering Plastics & Rubber



ABOUT US

The company has 2 main divisions namely 'Plastics Division' and 'Rubber Division'. Each division comprises a wide range of products to suit different industrial needs. The company believes that in this way, it is able to provide a versatile product range for different market segments.

Performance

With a wide range of performance parts available, they provide various characteristics such as chemical resistance, electrical conductivity and to withstand extreme temperatures depending on the different applications that might be required.

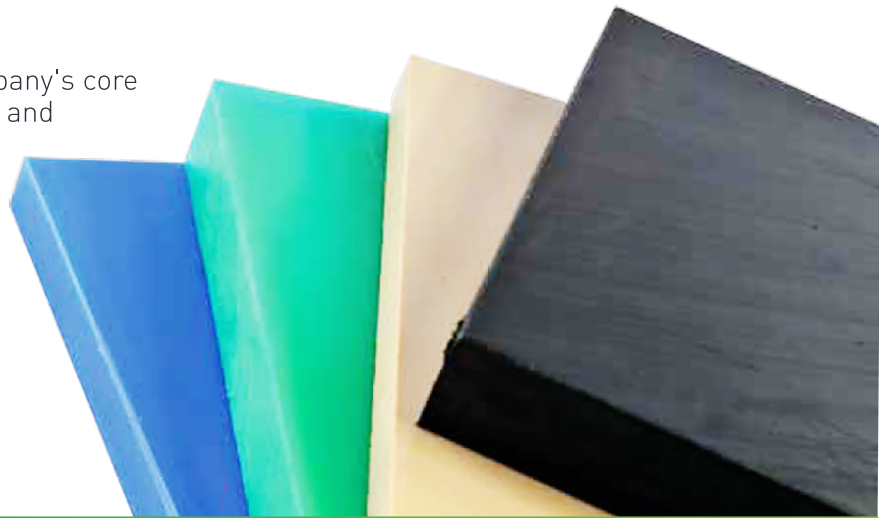
Quality

Swees Engineering maintains a high level of quality in the products it offers and carries out stringent quality checks. The company firmly believes in enhancing the quality of purchasing experience as well as creating solutions for our customers.

Our Services

Besides stock shapes and sizes, one of the company's core competencies is the ability to provide fabrication and moulding services, as well as cut to exact sizes for our customers. This allows the flexibility to provide customers with different shapes and dimensions accordingly.

From gaskets to profiles, we are able to provide such customized products to suit different requirements. With a wide range of in-house facilities available coupled with skilled technicians, our mission is to provide solutions for our customers.



PLASTIC DIVISION

◆ ANTISTATIC PLASTICS



Electric charge is generally caused by dynamic friction between two surfaces (tribo-electric charges). This results in a loss of electrons for the releasing surface (positive charge) and a gain in electrons for the receiving surface (negative charge). Tribo-electric charge attracts dust particles that must not be present in applications such as clean room and semiconductor industries. Hence, Anti-static Plastics are needed as no static discharge is generated through friction.

Our Anti-static Plastics are available in the following base materials:

- Anti-static PVC
- Anti-static PMMA
- Anti-static PC
- Anti-static PE
- Anti-static PP
- Anti-static POM
- Anti-static PEI
- Anti-static PEEK
- Anti-static PTFE
- Anti-static PAI
- Anti-static PA
- Anti-static ABS
- Anti-static PI

◆ ECO PLASTICS



ECO Plastics are thermoplastics based on renewable raw materials, therefore it is ecologically harmless and neutral in its carbon dioxide emissions. Most of these products are biodegradable and environmentally friendly. On the other hand, they also exhibit good mechanical properties, high stiffness as well as good impact strength. ECO plastics are usually made from biological materials instead of petroleum and other fossil fuels, thereby rendering this group of plastics its unique feature of being self-sustainable. Some areas of application include display designing, park benches, playground equipment, gear wheels (PA610) and runners (PA6.10).

- PLA-L
- WPC-30PP
- PA6.10

◆ HIGH PERFORMANCE PLASTICS



Besides general plastics that the company offers, Swees Engineering also carries a range of High Performance Plastics to cater different market segments in various industries. This range of products usually exhibit higher tolerances to temperature and chemicals, with greater strength and stiffness needed in different applications.

- PEEK (PolyEther Ether Ketone)
- PVDF (PolyVinylidene Fluoride)
- PEI (PolyEtherImide)
- PI (PolyImide)
- PAI (PolyAmide-Imide)
- Rulon
- PPS (PolyPhenylene Sulfide)

◆ GENERAL ENGINEERING PLASTICS

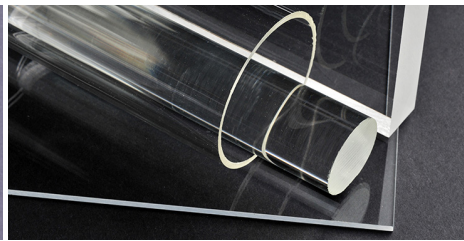
ABS

ABS is easily thermoformed and lends itself to remarkable reproduction of mould detail.



PMMA

PMMA or more commonly called Acrylic is a transparent thermoplastic, often used as a lightweight or shatter-resistant alternative to glass.



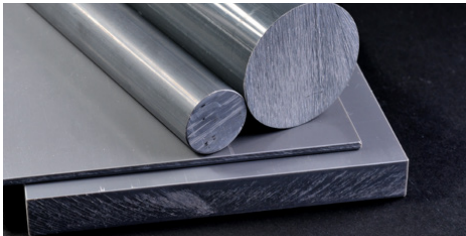
Bakelite

Bakelite or sometimes called Phenolic, have high impact strengths, easy to saw, drill, tap and machine with ordinary tools.



CPVC

CPVC has excellent corrosion resistance at elevated temperatures and suited for applications where temperatures up to 90°C are present.



POM

POM or more commonly called Delrin is a semi-crystal line thermoplastic engineering material with high strength and rigidity.



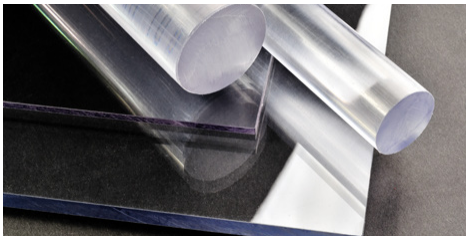
PA

PA or more commonly called Nylon is a semi-crystalline engineering thermoplastic with high toughness for varied applications.



PC

PC combines the impact strength with a UV-resistant surface treatment on one side that protects it from weathering.



PE

PE is a thermoplastic that have excellent chemical resistance and would not be attacked by strong acids or strong bases.



PET

PET is suitable for the manufacture of mechanical precision parts which will be able to sustain high loads and subject to wear.



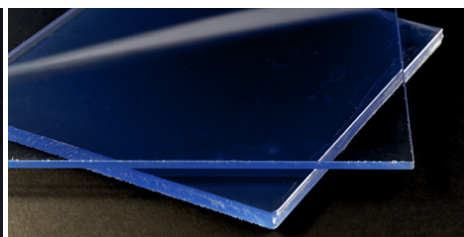
PP

PP has a high mechanical and tensile strength, resists stress cracking, easy to weld, and good electrical properties.



PVC

PVC has high hardness, mechanical properties, tensile strength and continuous operating temperature is from -15°C to +60°C.



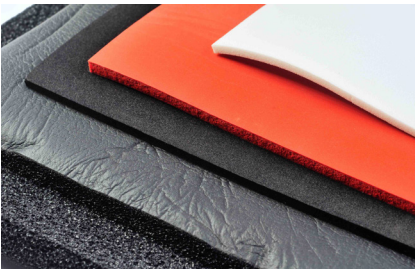
PTFE

PTFE has a wide temperature use range of -180°C to +250°C and resistant to virtually all corrosive chemicals.



RUBBER DIVISION

RUBBER SPONGE

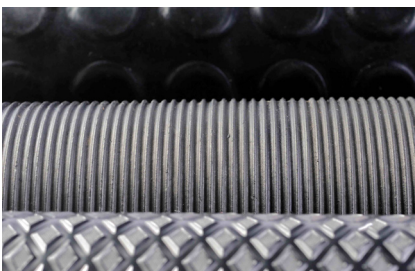


With various densities and hardness available, there are many types of rubber sponge for different applications. These materials also possess different insulation properties, with some rubber sponge lasting up to 260°C. Besides being an insulation material, these sponge products will resist light oil contact, ozone, alkalis and acids, making them a good choice for general enclosure door gaskets. Available in strips and rolls, these rubber sponge are excellent materials for roofing, electronic, cushioning and decorative applications. They are also used widely for shock absorbing in machine bases and loading bays.

Our Rubber Sponge Sheets are available in the following base materials :

- CR Sponge
- EPDM Sponge
- EVA Sponge
- Neoprene Sponge
- NBR Sponge
- PE Sponge
- PU Sponge
- PVC Sponge
- SR Sponge

RUBBER MATTING



From electrical insulation to antistatic properties, rubber mattings provide various functions for different applications. Studded and corrugated rubber mattings offer other antislip solutions that might be specifically needed. Besides having very good sound insulating and vibration dampening properties, these mattings are also hard-wearing and makes them a suitable surface to handle goods.

Our Rubber Mattings are available in the following base materials:

- Antistatic Rubber Matting
- High Voltage Rubber Matting
- Studded Rubber Matting
- Corrugated Rubber Matting

RUBBER SHEETS

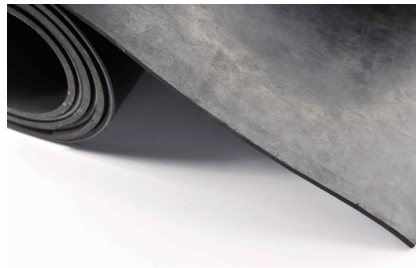
EPDM

EPDM has good ozone resistance, excellent electrical insulation and long service life in extreme environmental conditions.



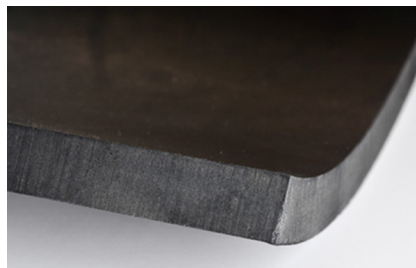
NBR

NBR has good elongation properties as well as adequate resilience, tensile and compression set.



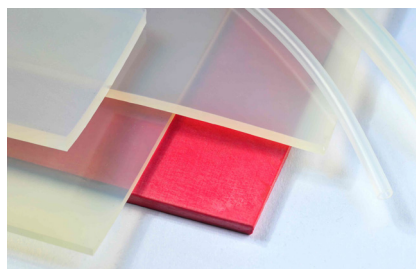
SBR

SBR have good abrasion resistance and good aging stability when protected by additives.



SR

SR or more commonly called Silicone, is resistant to extreme environment, with working temperatures ranging from -55°C to +300°C.



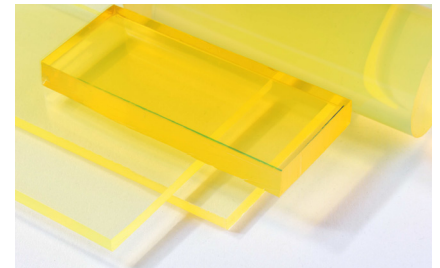
CR

CR or more commonly called Neoprene, exhibits good chemical stability, and maintains flexibility over a wide temperature range.



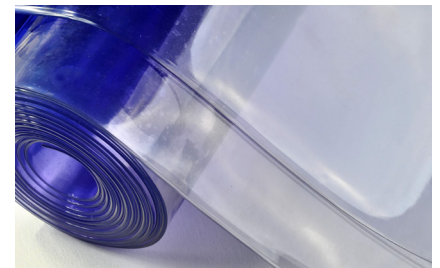
PU

PU has excellent abrasion, tear resistance and offers high load bearing capacity.



PVC

PVC curtain strip is a PVC-based material that is flexible and in a semi transparent physical form.



Viton

Viton is suitable for the most demanding industrial applications and its mechanical properties remain intact at temperatures of up to 250°C.

