



مطاط البحرين
Bahrain Rubber



Polyurethane Products Line

What is **Polyurethane**?

Polyurethane (PU) is a synthetic material created by the polymerization of urethane monomers, which are formed by the reaction between polyols (alcohol with multiple hydroxyl groups) and isocyanates (organic compounds containing an -NCO functional group).

The **Properties**

Hardness

PU are available from <10 Shore A to above 85 Shore D

Abrasion Resistance

Excellent resistance to wear (both sliding and impact abrasion).

Chemical Resistance

Polyurethane exhibits good resistance to various chemicals, oils, and solvents.

Environmental Resistance

Very good resistance to ozone and oxygen and general weathering.

Flex Resistance

PU are available from <10 Shore A to above 85 Shore D

Temperature Resistance

Chosen to operate at wide temperatures

The **Applications**

Pipe Coating Industries

Metal Coating Industries

Steel Companies

Coil Coating Companies

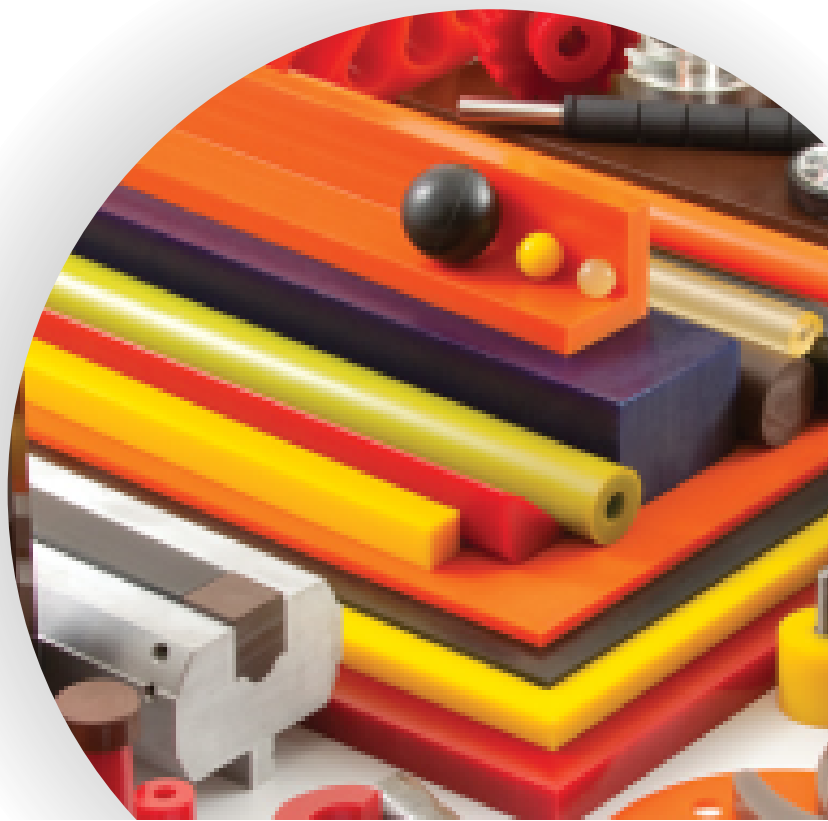
Printing Industries

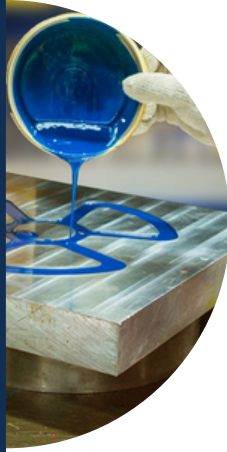
Oil Exploration Companies

Marine

Aviation

Defence





Polyurethane Casting

In polyurethane casting, liquid polyurethane is poured into a mold and allowed to cure, forming a solid part that takes on the shape of the mold. The mold can be made from a variety of materials, such as silicone, metal, or plastic, depending on the specific application.

Types of Polyurethane Products



Polyurethane Wheel



Diablo Roller



Bridge Roller



PU Screen



PU Sheets



Polyurethane Mounting



PU Coupling



PU Gaskets



PU Sleeve

Polyurethane Tyrfil



The tire fill is a process where a two-part liquid polyurethane material is injected into a pneumatic tire cavity, which then expands and cures to create a solid, rubber-like filling.

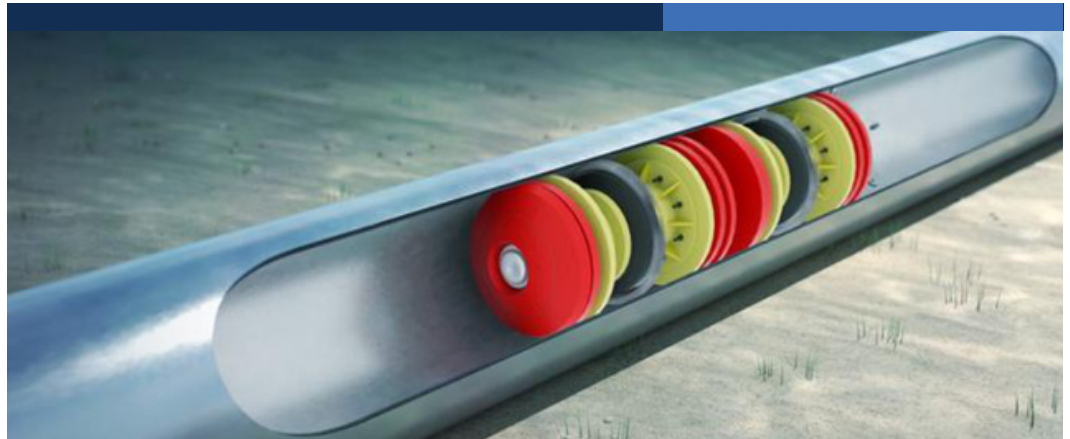
Polyurethane tire foam filling provides several benefits, including improved tire stability and durability, reduced tire wear and tear, and increased resistance to punctures and other types of damage.

This process is commonly used in heavy-duty applications, such as construction equipment, mining vehicles, and military vehicles, where tire failure can have severe consequences. However, it can also be used in other applications, such as forklifts, golf carts, and other types of vehicles where improved tire performance and reliability are desired.

Polyurethane Pigging Products

Polyurethane pigging is a pipeline maintenance technique used to clean and maintain the integrity of pipelines in various industries such as oil and gas, chemical, and food processing. A "pig" is a tool made of polyurethane foam, which is inserted into the pipeline and pushed through it using a pressurized fluid such as water or air.

Polyurethane pigs come in various shapes and sizes, depending on the application and type of pipeline being cleaned. They can be used for a variety of purposes, such as removing debris, scale, and buildup, as well as inspecting the internal condition of the pipeline.



Polyurethane Pigging Products Range

- Guiding Discs
- Sealing Discs
- Spacer Discs
- Scraper Sheets
- Conical Cups
- Cast Pigs
- Type-A Cups
- PU Pigs



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