

cast polyurethane

**Surprisingly**  
*Versatile*



# Urethane and Your Part

Plastic, metal, rubber. Those are the material choices for your part—right?

Think again. And this time, think cast polyurethane.

As flexible as a rubber band or as rigid as some metals, castable polyurethane elastomers are ideal in a far wider range of applications than many designers realize.

Need lots of resistance? Check. Shock absorption? Check. Load-bearing capacity? Check. Machinability? Check. Cast polyurethane can do it all—and with lower tooling costs and shorter lead times than other materials.

It's surprisingly versatile. And it just might be the right alternative to plastic, metal or rubber for your part.

# A Powerful Alternative to ...

## Plastic

No plastic can match the load-bearing capability, abrasion resistance and impact absorption of urethanes.

Plus, unlike plastic, cast polyurethane doesn't require high-pressure tooling, which means faster turnarounds and lower-cost molds.

- Tooling costs 1/5 that of plastic
- Faster, more accurate prototypes
- Tougher in so many ways

## Metal

With surprising rigidity, cast polyurethane is a viable option for hardware such as valves and gears.

Urethane's advanced manufacturability also eliminates the need for secondary operations such as stamping, punching and painting—processes that add time and costs to your part.

- Lighter weight
- Faster turnarounds and lower total costs
- Higher corrosion resistance



## Rubber

Rubber can do a lot of things. Cast polyurethane can do some of those things even better.

When you need the elasticity of rubber—but in a harder part—then urethane is your choice.

- Better wear resistance
- Higher load-bearing capacity
- No high-pressure tooling



## Surprised?

Want to know more about what urethane can do for your part?

Call your Polyurethane Manufacturers Association member today, and discover how surprisingly versatile cast polyurethane can be.

# **PMA** Polyurethane Manufacturers Association

## Our strengths. Your gains.

PMA is your connection to all things cast polyurethane—one of the most versatile, durable materials in the world. Bringing together the best resources and the best companies in the industry, we're helping more and more manufacturers benefit from all that urethane has to offer. Our strengths are your gains, so visit [www.pmahome.org](http://www.pmahome.org) to get in touch with a supplier or processor today.



Our strengths. Your gains.

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