# POM

Polyoxymethylene (acetal)

| DESIGNATION | CHEMICAL NAME | TYPE |
|---|---|---|
| POM | Polyoxymethylene (acetal) | Thermoplastic |

## General description

POM is supplied in two grades: POM-C (copolymer), which is the most common, and POM-H (homopolymer).
The material has very good mechanical properties and is mostly used for machined technical parts.

## Processing

POM is available as semi-finished products in the form of sheets, rods and hollow rods.
The material has very good machining properties but is not suitable for thermoforming.
Limited bondability.

## Applications

Machined technical parts: bearings, bushings, slide plates, guide rails, gears, handles, precision mechanical parts and more.

## Special features

Low moisture absorption, dimensionally stable.
Black and white are standard. Other colours can be supplied on request.
Food contact approval for certain types/products.

## Properties

| PROPERTY | STANDARD | UNIT | VALUE |
|---|---|---|---|
| Density | DIN 53479 | g/cm$^3$ | 1.41 |
| Tensile strength | DIN 53455 | N/mm$^2$ | 65 |
| Impact strength at 23 °C | DIN 53453 | kJ/m$^2$ | No break |
| Modulus of elasticity | DIN 53457 | N/mm$^2$ | 3000 |
| Service temperature, continuous | - | °C | -40/+90 |
| Thermal expansion | ASTM D 896 | mm/m/°C | 0.09 |
| Flammability | UL 94 | | HB |

All information and guidelines are based on generally recognised technical handbooks and are given to the best of our knowledge and in good faith, without liability for any errors.

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