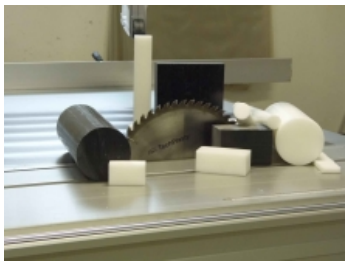
POM-C - polyacetal copolymer

Other material names POM-C: Polyacetal, Polyoxymethylene, Polyformaldehyde
Material group: POM



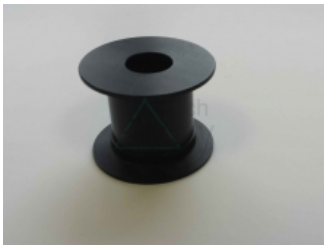
POM-C is a unique balance of physical properties not available in most other thermoplastics. This copolymer acetal is an engineering plastic made for wide-ranging universal applications in many different industries. The key performance characteristics of unmodified POM-C include high mechanical strength and rigidity, excellent wear, low moisture absorption and excellent dimensional stability. Unfilled POM-C copolymer offers high crystallinity and a good degree of toughness (even in the lower temperature range), combined with good chemical resistance.

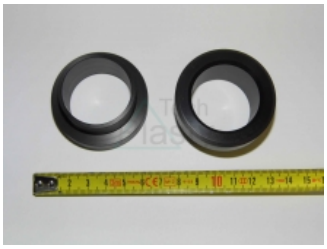
Color of material:

Natur Black

Typical applications:

- gears
- rollers
- electrical test part with dozens of tight tolerance machined holes
- guide rollers



The material is used in:

Food industry
Electrotechnical industry
Automobile industry
Packaging industry
Dairy industry
Meat processing industry
Engineering industry
Production of single-purpose machines

Features:

- high strength
- resistent to cleaning agents
- stiff
- high toughness
- very good electrical insulation
- good machinability
- good slide and wear properties
- difficult to bond

Material availability: Material is in stock

Material properties table

Specific weight	1.41 g/cm³
Yield strength	65 N/mm²
Allowable mean pressure deformation 1%	19.00 N/mm²
Allowable mean pressure deformation 2%	35.00 N/mm²
Allowable mean pressure deformation 5%	67.00 N/mm²
p.v dry limit	0.15 MPa.m/s
Flexural strength	115 N/mm²
Tensibility	40 %
Flexural modulus	2 900 N/mm²
Tensile modulus	3 000 N/mm²
Impact toughness	bez zlomu
Notched toughness	>10 kJ/m²
Ball hardness	150 N/mm²
Friction coefficient	0.32
Sliding wear	8.90 um/km
Abrasive wear	700
Antistatic material	No
Permittivity	3.80
Electrical strength	20 kV/mm
Specific internal resistance	10^(14) Ω
Specific surface resistance	10^(13) Ω.cm
Melting point	178 °C
Thermal expansion	10 10^(-5)/K
Thermal conductivity	0.31 W/(K.m)
Permanent use temperature	-30 ; 100 °C
Transient temperature of use	-30 ; 140 °C
Absorbability	0,2 %
Water absorption	0,8 %
Resistance - oils	resistant
Acid resistance	not resistant
Durability - alcali	resistant
Food contact	Yes
Special features	• very good machinability by chip machining

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All standard and special materials are designed to meet your specific requirements. Their mechanical, thermal, and electrical properties and chemical resistance satisfy the most demanding requirements and this allows them to work even in the most difficult conditions. If you need advice when choosing the appropriate material for your application, please contact us. We'll gladly advise you. You can utilize the long-term experience of our technical advisors free-of- charge, who can visit you right in your operation and solve your requirements for engineering plastics directly at the site of their usage.

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