

To Whom It May Concern

Subject: POM Polyacetal

POM is a stiff, hard, and elastic material suitable for spanned processing. It is short spanned, and it may reach a very high surface finish. POM is a very universally applied material and comes in 2 types: POM H and POM C, where the copolymeric POM C is today's standard.

Despite the hardness, POM has a high elasticity and punch. In the short term, POM may stand temperatures up to 140°C in dry air.

When applied for a long period at this temperature or when applied in hot water above 65°C, brittleness and fissures (hydrolysis) will form in the surface.

POM is available in various modified types with addition of glass fibres, MoS₂, PE, or antistatic material. As a semifinished product, POM is made by extrusion and comes in colours nature (white) or black, where black is the most UV stable. Other colours are also possible, e.g. blue.

The food industry applies POM which to a high degree has been approved for application in connection with food. The material is easy to clean and will necessarily not be influenced by the commonly used detergents.

Typical application:

- Wheels
- Bearings
- Rollers
- Cams
- Toothed wheels
- Bushings
- Guide discs
- Fine mechanics
- Carriers

Material Data		POM C
Density	g/cm	1.41
Ball pressure hardness	MPa	150
Draught pressure	MPa	65
Elasticity module	KJ/m2	2900
Notched impact resistance 150178	%	>10
Moisture absorption 50% RF	°C	0.2/0.8
Application temperature	10 src	-30/+100
Extension coefficient		10
Friction		0.32
Acid (diluted)		-
Base		+
Dissolvent		+
UV light (nature/black)		-/+

All data are guiding only

- + = applicable
- = not applicable
- () = conditional applicable

Best regards

scansteel foodtech A/S



Henrik Sandberg
CEO & Owner

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