

Polyacetal - White (POM)

Swan Seals POM is a white (natural) Polyacetal commonly referred to as POM (Polyoxymethylene) or Acetal. The Material has excellent physical and chemical properties to serve a wide range of applications. Swan Seals POM is very stable in wet and dry environments and is recommended for precision, close tolerance parts. Moisture absorption is very low compared to standard nylons. White Acetal co-polymer is FDA approved.

PHYSICAL PROPERTIES

Specific gravity	DIN 53479	g/cm ³	1.41
Moisture absorption	at 20°C / 65% rel. M	%	0.2
Tensile strength	DIN 53455	N/mm ²	70
Elongation at break	DIN 53455	%	40
Ball Hardness (H358/3)	DIN 53456	N/mm ²	60
Modulus	ISO R 178	N/mm ²	3300
Coefficient of sliding		μ	<0,4
Melting temperature		°C	164 - 167
Min. Service temperature		°C	-60
Max. Service temperature		°C	100

MAIN APPLICATION

Guide rings
Bushings
Back up rings
Scrapers
Housings
High precision parts

CHEMICAL RESISTANCE

Water up to 70°	R
Water up to 90°	R
HFA	R
HFB	R
HFC	R
HFD	U
Mineral Oils	R
Vegetable Oils	R
Fuels	R
Ozone	U
Air up to 100°	R
Air up to 150°	U
Air up to 200°	U

KEY TO CHEMICAL RESISTANCE

R = resistance
S = suitable
U = unsuitable

ANALYSIS AND EVALUATION

The properties relate to fundamental values of Polyacetal. Product values mentioned above are corresponding to ASTM or DIN norm and have been tested on standardized plates in the laboratory.