

POM FM90 Technical Data Sheet

Product Characteristics

FORMOCON® FM090 is a polyacetal polyoxymethylene (POM) copolymer grade by Formosa Plastics. Polyoxymethylene is an intrinsically opaque white, highly crystalline thermoplastic that is known for its high flexural and tensile strength, stiffness, hardness, and low creep under stress. POM has a low coefficient of friction, excellent chemical resistance and outstanding fatigue properties, but only moderate heat stability and insufficient flame resistance. Polyacetal and its copolymers are an excellent choice for applications that require low friction, tight tolerances, and high impact and creep resistance.

Applications

- Buttons and press-in fasteners
- Electronic parts
- Automotive parts
- Household appliances
- Bearing
- Plumbing and hardware
- Gears

Specifications & Properties

➤ Appearance:	White Pellets
➤ Melt index	9 gr/10min
➤ Density:	1.41 g/cm ³
➤ Mold Shrinkage	1.8-2.2 (3 mm ^t , 4in disk)
➤ Water absorption:	0.2 (23°C, 50% RH)
➤ Tensile Strength (at yield point):	62 MPa
➤ Tensile Elongation at break point:	35%
➤ Flexural Strength:	88 MPa
➤ Flexural Modulus:	2500 MPa
➤ Izod Impact Strength(V-notched):	6 KJ/m ²
➤ Melting Point:	165 °C
➤ Rockwell Hardness(M-scale):	80
➤ Flammability (UL 94):	HB

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➤ Heat Deflection Temperature:	103 °C
➤ Linear Expansion Factor:	12 ($\times 10^{-5}$ °C)
➤ Volume Resistivity:	1×10^{14} Ω .cm
➤ Surface Resistivity:	1×10^6 Ω
➤ Dielectric breakdown strength:	19 kV/mm

Properties

- Standard flow
- Minimal mold
- Enhance demolding, perfect glossiness and increase production cycle

Packing

In 25kg bags

Product Storage

Keep POM away from heat and flame. Keep from contact with oxidizing materials. Store Polyoxymethylene in a cool, dry, well-ventilated area away from incompatible substances. Keep containers tightly closed. Keep Polyacetal away from strong bases.

Safety Precautions

Do not get Polyoxymethylene on skin or in eyes. Do not ingest or inhale. POM may cause severe irritation of the upper respiratory tract with pain, burns, and inflammation. Polyacetal may cause anosmia (loss of smell). Inhalation of high concentrations of Polyoxymethylene may cause pulmonary edema.