TECHNICAL SHEET

serviacero especiales

ACETAL (POM- C)

Equivalence:	ASTM D4181 – 00		----			----		
Profiles:	Plate	Rod	----	----	----	----	----	----
Color:	White	Black	----	----	----	----	----	----
Mechanical properties (approx. at room temperature):	**Density, g/cm³**		**Tensile strenght, MPa (ksi)**		**Elastic modulus, MPa (ksi)**		**Impact resistance, kJ/m² (Izod test)**	
	1.38 – 1.43		58 (84.1)		2,000 (290)		4.0	

- The indicated values are minimum estimates, not mandatory, and should only be taken as reference in the general characteristics of acetals according to ASTM D4181 - 00.
- Special values must be consulted and agreed upon with the manufacturer.

CHARACTERISTICS

- It is a rigid material with high tensile strength, good dimensional stability, and resistance to moisture.
- It exhibits good dimensional stability, meaning it does not undergo considerable variations with changes in temperature or humidity. This makes it ideal for applications requiring parts with tight dimensional tolerances, such as automotive components and machinery parts.
- It is moisture-resistant, making it suitable for applications where parts may be exposed to water and/or vapors, such as machine components.
- It serves as a good electrical insulator, making it ideal for applications requiring parts that do not conduct electricity, such as connectors and switches.
- Acetal allows for achieving better surface finishes compared to other plastics.

APPLICATIONS

- Due to its mechanical strength and dimensional stability, it is used in gears, bearings, pulleys, connectors, and components of braking systems, water and fuel pumps, mechanical systems of appliances and electronic equipment, as well as interior parts of automobiles. Thanks to its low moisture absorption, it can be part of hydraulic accessories, such as valves, faucets, and pumps.

- **Industrial applications of acetal:**
- **Food and agricultural industry:** Due to its dimensional stability, it is used in pump housings used for liquid transportation and internal components of pumps.

Internal components of pumps for water

especiales@serviacero.com
www.serviacero.com/**especiales**

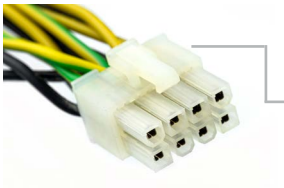
León: Tel. (477) 800 27 00
Guadalajara: Tel. (33) 3811 42 48
San Luis Potosí: Tel. (444) 821 17 00
Querétaro: Tel. (442) 210 22 90

Monterrey: Tel. (81) 4738 54 00
México: Tel. (55) 6379 05 11
Saltillo: Tel. (844) 288 95 00

- **Hydraulic and chemical industry:** Components that come into contact with water and require dimensional stability.

Hose connection with thread

- **Electrical and appliance industry:** Electrical connectors requiring electrical insulation and dimensional stability.



Contactors for checking the continuity of electrical harnesses

- **Equipment and goods industry:** Components in motors, such as gears, requiring mechanical strength.

In a (toy) camera, the internal system has acetal gears

especiales@serviacero.com
www.serviacero.com/**especiales**

León: Tel. (477) 800 27 00
Guadalajara: Tel. (33) 3811 42 48
San Luis Potosí: Tel. (444) 821 17 00
Querétaro: Tel. (442) 210 22 90

Monterrey: Tel. (81) 4738 54 00
México: Tel. (55) 6379 05 11
Saltillo: Tel. (844) 288 95 00