

DSM 3.7.1

ACETAL_Copolymer (Cast)

General:

Acetal (**POM-C**) resins are among the strongest and stiffest of all semi crystalline thermoplastics, and are characterized by good fatigue life, low moisture sensitivity, high resistance to solvents and chemicals, combined with good electrical properties. Two types of acetals are available, namely; homopolymer and a copolymer. This DSEI uses a slightly lower cost **copolymer** variant which is preferred, for machining routines, due to the absence of centre line porosity in extruded rods and profiles.

Benefits:

- Maximum Continuous Service Temperature is 80°C (180°F.)
- Dimensionally stable including flatness up to continuous service temp.
- Good electrical insulation and chemical resistance to solvents & hydrocarbons.
- High surface hardness including stiffness. Easy machining.
- Lower coefficient of friction & better wear and impact properties especially in wet or moist environments.

Limitations:

- Become brittle with long term exposure to low temperatures and/or sunlight (UV). Poor fire resistance (UL 94 HB).
- Sensitive to acid & chlorine attack
- Resistant to bonding, when using adhesives or solvents.

ASM (DEK) Applications:

- Milled & turned machined components.

Profiles:

- Plate: 3 – 150 mm thick
- Rod: 5 – 305 mm Diameter
- Tube 25 – 230 mm Outside Diameter

Drawing Callout:

DSM 3.7.1_Black
DSM 3.7.1_White
DSM 3.7.1_Red

If not specified above, please specify in the drawing the desired colour of material required.

These values are representative. For critical applications, refer to data-sheet.

MECHANICAL PROPERTIES					
MATERIAL DETAILS	HARDNESS Shore A	TENSILE STRENGTH:	YOUNGS MODULUS:	POISSONS RATIO:	DENSITY:
POM-C	---	70 MPa	2.6 GPa	0.37	1410 Kg/m³

Alternatives:

Alternative polymers are allowed only with the express written permission of ASMPT. Please email details of your request to engineering_enquiries@asmpt.com

Issue	01	02	03	04	05	06	07	08
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