

# Pier One POM AC109-BK10

Acetal (POM) Copolymer

Pier One Polymers, Inc.

## Message:

Pier One POM AC109-BK10 is an Acetal (POM) Copolymer material. It is available in North America for injection molding. Primary attribute of Pier One POM AC109-BK10: Copolymer.

| General Information                                     |                   |                   |             |
|---------------------------------------------------------|-------------------|-------------------|-------------|
| Features                                                | Copolymer         |                   |             |
| Appearance                                              | Black             |                   |             |
| Forms                                                   | Pellets           |                   |             |
| Processing Method                                       | Injection Molding |                   |             |
| Physical                                                | Nominal Value     | Unit              | Test Method |
| Specific Gravity                                        | 1.41              | g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)                | 7.0 to 9.0        | g/10 min          | ASTM D1238  |
| Mechanical                                              | Nominal Value     | Unit              | Test Method |
| Tensile Strength (23°C)                                 | 60.7              | MPa               | ASTM D638   |
| Tensile Elongation (Break, 23°C)                        | 60                | %                 | ASTM D638   |
| Flexural Modulus (23°C)                                 | 2590              | MPa               | ASTM D790   |
| Flexural Strength (23°C)                                | 89.6              | MPa               | ASTM D790   |
| Impact                                                  | Nominal Value     | Unit              | Test Method |
| Notched Izod Impact (23°C)                              | 67                | J/m               | ASTM D256   |
| Thermal                                                 | Nominal Value     | Unit              | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 110               | °C                | ASTM D648   |
| Injection                                               | Nominal Value     | Unit              |             |
| Drying Temperature                                      | 110               | °C                |             |
| Drying Time                                             | 2.0               | hr                |             |
| Processing (Melt) Temp                                  | 182 to 198        | °C                |             |
| Mold Temperature                                        | 76.0 to 93.0      | °C                |             |

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## Recommended distributors for this material

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