

# MAXATEL® AH100-NC010

Acetal (POM) Homopolymer

Pier One Polymers, Inc.

## Message:

MAXATEL® AH100-NC010 is a polyoxymethylene (POM) homopolymer material. This product is available in North America and is processed by injection molding. MAXATEL® The main characteristics of the AH100-NC010 are: homopolymer.

| General Information                                     |                   |                   |             |
|---------------------------------------------------------|-------------------|-------------------|-------------|
| Features                                                | Homopolymer       |                   |             |
| Appearance                                              | Natural color     |                   |             |
| Forms                                                   | Particle          |                   |             |
| Processing Method                                       | Injection molding |                   |             |
| Physical                                                | Nominal Value     | Unit              | Test Method |
| Specific Gravity                                        | 1.42              | g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (190°C/1.05 kg)               | 1.0               | g/10 min          | ASTM D1238  |
| Mechanical                                              | Nominal Value     | Unit              | Test Method |
| Tensile Strength (23°C)                                 | 67.6              | MPa               | ASTM D638   |
| Tensile Elongation (Break, 23°C)                        | 75                | %                 | ASTM D638   |
| Flexural Modulus (23°C)                                 | 2900              | MPa               | ASTM D790   |
| Flexural Strength (23°C)                                | 93.8              | MPa               | ASTM D790   |
| Impact                                                  | Nominal Value     | Unit              | Test Method |
| Notched Izod Impact (23°C)                              | 110               | J/m               | ASTM D256   |
| Thermal                                                 | Nominal Value     | Unit              | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 123               | °C                | ASTM D648   |
| Peak Melting Temperature                                | 175               | °C                | ASTM D3418  |
| Injection                                               | Nominal Value     | Unit              |             |
| Drying Temperature                                      | 79                | °C                |             |
| Drying Time                                             | 2.0               | hr                |             |
| Processing (Melt) Temp                                  | 195 - 215         | °C                |             |
| Mold Temperature                                        | 40 - 60           | °C                |             |

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## Recommended distributors for this material

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