

# Tenopom® POM A3 MF PRTA010 PR304

Acetal (POM) Homopolymer  
Petropol Industry and Trade of Polymers LTDA

Message:  
Polyacetal homopolymer medium viscosity, easy processing, suitable for injection.

| General Information                       |                     |                   |             |
|-------------------------------------------|---------------------|-------------------|-------------|
| Features                                  | Good Processability |                   |             |
|                                           | Homopolymer         |                   |             |
|                                           | Medium Viscosity    |                   |             |
| Processing Method                         | Injection Molding   |                   |             |
| Resin ID (ISO 1043)                       | >POM<               |                   |             |
| 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) | 5.0 to 7.0          | g/10 min          | ASTM D1238  |
| Molding Shrinkage - Flow                  | 1.8 to 2.1          | %                 | ASTM D955   |
| Hardness                                  | Nominal Value       | Unit              | Test Method |
| Rockwell Hardness (R-Scale)               | 120                 |                   | ASTM D785   |
| Mechanical                                | Nominal Value       | Unit              | Test Method |
| Tensile Strength                          | 67.0                | MPa               | ASTM D638   |
| Tensile Elongation (Break)                | 41                  | %                 | ASTM D638   |
| Flexural Modulus                          | 3150                | MPa               | ASTM D790   |
| Impact                                    | Nominal Value       | Unit              | Test Method |
| Notched Izod Impact                       | 73                  | J/m               | ASTM D256   |
| Thermal                                   | Nominal Value       | Unit              | Test Method |
| Deflection Temperature Under Load         |                     |                   |             |
| 0.45 MPa, Unannealed                      | 165                 | °C                | ASTM D648   |
| 1.8 MPa, Unannealed, 0.250 mm             | 100                 | °C                | ASTM D696   |
| Peak Melting Temperature                  | 177                 | °C                | ASTM D3418  |
| Electrical                                | Nominal Value       | Unit              | Test Method |
| Volume Resistivity                        | 2.0E+14             | ohms · cm         | ASTM D257   |
| Dissipation Factor (1 MHz)                | 5.0E-3              |                   | ASTM D150   |
| Flammability                              | Nominal Value       | Unit              | Test Method |
| Flame Rating                              | HB                  |                   | UL 94       |
| Injection                                 | Nominal Value       | Unit              |             |
| Drying Temperature                        | 90.0                | °C                |             |
| Drying Time                               | 3.0                 | hr                |             |
| Processing (Melt) Temp                    | 210 to 220          | °C                |             |

|                  |              |    |
|------------------|--------------|----|
| Mold Temperature | 80.0 to 90.0 | °C |
|------------------|--------------|----|

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