

# Petrotene® PP A3 C35 NTLA010 PH303

Polypropylene

Petropol Industry and Trade of Polymers LTDA

## Message:

Polypropylene with 35% mineral filler, ideal for injection molding, resistant to oil, grease and various solvents, good set of mechanical properties and good dimensional stability.

| General Information                                     |                              |                   |                         |
|---|------------------------------|-------------------|-------------------------|
| Filler / Reinforcement                                  | Mineral,35% Filler by Weight |                   |                         |
| Features  | Good Dimensional Stability   |                   |                         |
|   | Grease Resistant             |                   |                         |
|   | Oil Resistant                |                   |                         |
|   | Solvent Resistant            |                   |                         |
| Processing Method                                       | Injection Molding            |                   |                         |
| Physical  | Nominal Value                | Unit              | Test Method             |
| Specific Gravity  | 1.13 to 1.15                 | g/cm <sup>3</sup> | ASTM D792               |
| Melt Mass-Flow Rate (MFR)                               | 3.0 to 15                    | g/10 min          | ASTM D1238              |
| Molding Shrinkage - Flow                                | 0.90 to 1.1                  | %                 | ASTM D955               |
| Water Absorption (Equilibrium)                          | 0.050                        | %                 | ASTM D570               |
| Mechanical  | Nominal Value                | Unit              | Test Method             |
| Tensile Strength  | 30.0                         | MPa               | ASTM D638               |
| Tensile Elongation (Break)                              | 15                           | %                 | ASTM D638               |
| Flexural Modulus  | 2500                         | MPa               | ASTM D790               |
| Flexural Strength                                       | 45.0                         | MPa               | ASTM D790               |
| Impact  | Nominal Value                | Unit              | Test Method             |
| Notched Izod Impact                                     | 30                           | J/m               | ASTM D256               |
| Thermal   | Nominal Value                | Unit              | Test Method             |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 65.0                         | °C                | ASTM D648               |
| Continuous Use Temperature                              | 90.0                         | °C                |                         |
| Vicat Softening Temperature                             | 150                          | °C                | ASTM D1525 <sup>1</sup> |
| Electrical  | Nominal Value                | Unit              | Test Method             |
| Volume Resistivity                                      | > 1.0E+14                    | ohms · cm         | ASTM D257               |
| Dielectric Strength                                     | 40                           | kV/mm             | ASTM D149               |
| Dissipation Factor (1 kHz)                              | 2.0E-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   | 2.0                          | hr                |                         |

|                        |                                   |    |
|------------------------|-----------------------------------|----|
| Processing (Melt) Temp | 190 to 230                        | °C |
| Mold Temperature       | 60.0 to 80.0                      | °C |
| NOTE                   |                                   |    |
| 1.                     | Rate A (50°C/h), Loading 1 (10 N) |    |

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