

# Nypol® PA A3 G13 HS UV RH PRTA011 NR409

Polyamide 66

Petropol Industry and Trade of Polymers LTDA

## Message:

Nylon 6.6 in black color reinforced with 13% glass fibre ,heat stabilised, UV and hydrolysis resistant, good set of mechanical properties. Ideal for molding for injection.

| General Information               |              |                                  |                   |             |
|-----------------------------------|--------------|----------------------------------|-------------------|-------------|
| Filler / Reinforcement            |              | Glass Fiber,13% Filler by Weight |                   |             |
| Additive                          |              | Heat Stabilizer                  |                   |             |
|                                   |              | Hydrolysis Resistant             |                   |             |
|                                   |              | UV Stabilizer                    |                   |             |
| Features                          |              | Good UV Resistance               |                   |             |
|                                   |              | Heat Stabilized                  |                   |             |
|                                   |              | Hydrolysis Resistant             |                   |             |
| Appearance                        |              | Black                            |                   |             |
| Processing Method                 |              | Injection Molding                |                   |             |
| Resin ID (ISO 1043)               |              | >PA 6.6 GF13<                    |                   |             |
| Physical                          | Dry          | Conditioned                      | Unit              | Test Method |
| Specific Gravity                  | 1.23         | --                               | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow          | 0.50 to 0.80 | --                               | %                 | ASTM D955   |
| Water Absorption (Equilibrium)    | 2.3          | --                               | %                 | ASTM D570   |
| Ash Content                       | 11 to 15     | --                               | %                 | ASTM D2584  |
| Mechanical                        | Dry          | Conditioned                      | Unit              | Test Method |
| Tensile Modulus                   | 5500         | 3600                             | MPa               | ASTM D638   |
| Tensile Strength                  | 119          | 76.0                             | MPa               | ASTM D638   |
| Tensile Elongation (Break)        | 3.0          | 12                               | %                 | ASTM D638   |
| Flexural Strength                 | 165          | 115                              | MPa               | ASTM D790   |
| Impact                            | Dry          | Conditioned                      | Unit              | Test Method |
| Notched Izod Impact               |              |                                  |                   | ASTM D256   |
| -30°C                             | 40           | 30                               | J/m               |             |
| 23°C                              | 40           | 55                               | J/m               |             |
| Thermal                           | Dry          | Conditioned                      | Unit              | Test Method |
| Deflection Temperature Under Load |              |                                  |                   | ASTM D648   |
| 0.45 MPa, Unannealed              | 258          | --                               | °C                |             |
| 1.8 MPa, Unannealed               | 235          | --                               | °C                |             |
| Melting Temperature               | 250 to 265   | --                               | °C                | ASTM D2117  |

| Electrical                  | Dry         | Conditioned | Unit    | Test Method |
|-----------------------------|-------------|-------------|---------|-------------|
| Volume Resistivity          | 1.0E+16     | --          | ohms·cm | ASTM D257   |
| Electric Strength (2.00 mm) | 25          | --          | kV/mm   | IEC 60243-1 |
| Flammability                | Dry         | Conditioned | Unit    | Test Method |
| Flame Rating                | HB          | --          |         | UL 94       |
| Injection                   | Dry         | Unit        |         |             |
| Drying Temperature          | 80.0        |             | °C      |             |
| Drying Time                 | 4.0         |             | hr      |             |
| Suggested Max Moisture      | 0.20        |             | %       |             |
| Processing (Melt) Temp      | 270 to 290  |             | °C      |             |
| Mold Temperature            | 80.0 to 120 |             | °C      |             |

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