

# Nypol® PA A3 G20 HS NTLA013 NR437

Polyamide 66

Petropol Industry and Trade of Polymers LTDA

Message:

Polyamide 6.6 natural reinforced with 20% of fiberglass and term stabilized, good set of thermal and mechanical properties. Ideal for injection molding.

| General Information                                     |              |                                  |                   |             |
|---|--------------|----------------------------------|-------------------|-------------|
| Filler / Reinforcement                                  |              | Glass Fiber,20% Filler by Weight |                   |             |
| Additive  |              | Heat Stabilizer                  |                   |             |
| Features  |              | Heat Stabilized                  |                   |             |
| Appearance  |              | Natural Color                    |                   |             |
| Processing Method                                       |              | Injection Molding                |                   |             |
| Resin ID (ISO 1043)                                     |              | >PA 6.6 GF20<                    |                   |             |
| Physical  | Dry          | Conditioned                      | Unit              | Test Method |
| Specific Gravity  | 1.26 to 1.29 | --                               | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow                                | 0.60 to 0.85 | --                               | %                 | ASTM D955   |
| Water Absorption (Equilibrium)                          | 1.0 to 1.2   | --                               | %                 | ASTM D570   |
| Ash Content   | 18 to 22     | --                               | %                 | ASTM D2584  |
| Mechanical  | Dry          | Conditioned                      | Unit              | Test Method |
| Tensile Modulus   | 7420         | 5400                             | MPa               | ASTM D638   |
| Tensile Strength  | 140          | 95.0                             | MPa               | ASTM D638   |
| Tensile Elongation (Break)                              | 3.4          | 7.0                              | %                 | ASTM D638   |
| Flexural Modulus  | 6500         | 4180                             | MPa               | ASTM D790   |
| Impact  | Dry          | Conditioned                      | Unit              | Test Method |
| Notched Izod Impact                                     | 60           | 120                              | J/m               | ASTM D256   |
| Thermal   | Dry          | Conditioned                      | Unit              | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 248          | --                               | °C                | ASTM D648   |
| Melting Temperature                                     | 250 to 265   | --                               | °C                | ASTM D2117  |
| Flammability  | Dry          | Conditioned                      |                   | 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                                  | 260 to 290   |                                  | °C                |             |
| Mold Temperature  | 60.0 to 80.0 |                                  | °C                |             |

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