# Next Nylon 6 Prime Series NG15-01BK

Polyamide 6

Next Polymers Ltd.

## Message:

Description
PA6 Glass Fiber Reinforced Black Compound
Product Applications
This grade is used for internal gas pressure application and Automotive components such as steering column, Telecom coil spools and knobs, power tools accessories and insulation parts
Benefits
This grade offering good combination between thermal and mechanical properties.

| General Information | | | | |
|---|---|---|---|---|
| Filler / Reinforcement | Glass Fiber,15% Filler by Weight | | | |
| Uses | Automotive Applications<br>Insulation<br>Knobs<br>Power/Other Tools<br>Telecommunications | | | |
| Agency Ratings | EC 1907/2006 (REACH) | | | |
| RoHS Compliance | RoHS Compliant | | | |
| Appearance | Black | | | |
| Processing Method | Injection Molding | | | |
| **Physical** | **Dry** | **Conditioned** | **Unit** | **Test Method** |
| Specific Gravity | 1.23 | -- | g/cm³ | ASTM D792 |
| Molding Shrinkage | | | | ASTM D955 |
| Flow | 0.32 | -- | % | |
| Across Flow | 0.95 | -- | % | |
| Water Absorption | | | | ASTM D570 |
| 23°C, 24 hr | 2.2 | -- | % | |
| Saturation [1] | 7.5 | -- | % | |
| **Hardness** | **Dry** | **Conditioned** | **Unit** | **Test Method** |
| Rockwell Hardness | | | | ASTM D785 |
| M-Scale | 110 | -- | | |
| R-Scale | 120 | -- | | |
| **Mechanical** | **Dry** | **Conditioned** | **Unit** | **Test Method** |
| Tensile Strength | 110 | 70.0 | MPa | ASTM D638 |
| Tensile Elongation (Break) | 4.0 | 10 | % | ASTM D638 |
| Flexural Modulus | 5100 | 2500 | MPa | ASTM D790 |
| Flexural Strength | 160 | -- | MPa | ASTM D790 |
| **Impact** | **Dry** | **Conditioned** | **Unit** | **Test Method** |

| | | | | |
|---|---|---|---|---|
| Notched Izod Impact (23°C) | 59 | 110 | J/m | ASTM D256 |
| **Thermal** | **Dry** | **Conditioned** | **Unit** | **Test Method** |
| Deflection Temperature Under Load | | | | ASTM D648 |
| 0.45 MPa, Unannealed | 215 | -- | °C | |
| 1.8 MPa, Unannealed | 190 | -- | °C | |
| Melting Temperature | 220 | -- | °C | ASTM D2117 |
| **Electrical** | **Dry** | **Conditioned** | **Unit** | **Test Method** |
| Surface Resistivity | -- | 1.0E+14 | ohms | IEC 60093 |
| Volume Resistivity | 1.0E+15 | 1.0E+15 | ohms·cm | IEC 60093 |
| Electric Strength | 30 | 25 | kV/mm | IEC 60243-1 |
| Comparative Tracking Index | 550 | -- | V | IEC 60112 |
| **Flammability** | **Dry** | **Conditioned** | **Unit** | **Test Method** |
| Flame Rating (0.800 mm) | HB | -- | | UL 94 |
| **Injection** | **Dry** | **Unit** | | |
| Drying Temperature - Hot Air Dryer | 80.0 | | °C | |
| Drying Time | 4.0 to 6.0 | | hr | |
| Suggested Max Moisture | 0.20 | | % | |
| Rear Temperature | 240 to 250 | | °C | |
| Middle Temperature | 250 to 260 | | °C | |
| Front Temperature | 260 to 265 | | °C | |
| Mold Temperature | 65.0 to 85.0 | | °C | |
| **NOTE** | | | | |
| 1. | Immersed | | | |



## Recommended distributors for this material

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