# Next Nylon 6 Prime Series NG30-01ABK

Polyamide 6

Next Polymers Ltd.

## Message:

Description
PA6 Glass Fiber Reinforced Black compound
Product Applications
Typical Applications includes manifolds, pedals & for crash relevent application.
Benefits
Having very high rigidity and good thermal property.

| General Information | | | | |
|---|---|---|---|---|
| Filler / Reinforcement | Glass Fiber,30% Filler by Weight | | | |
| Features | High Rigidity | | | |
| Uses | Automotive Applications | | | |
| Agency Ratings | EC 1907/2006 (REACH) | | | |
| RoHS Compliance | RoHS Compliant | | | |
| Appearance | Black | | | |
| Processing Method | Injection Molding | | | |
| **Physical** | **Dry** | **Conditioned** | **Unit** | **Test Method** |
| Specific Gravity | 1.36 | -- | g/cm³ | ASTM D792 |
| Molding Shrinkage | | | | ASTM D955 |
| Flow | 0.30 | -- | % | |
| Across Flow | 0.80 | -- | % | |
| Water Absorption | | | | ASTM D570 |
| 23°C, 24 hr | 2.0 | -- | % | |
| Saturation [1] | 6.5 | -- | % | |
| **Hardness** | **Dry** | **Conditioned** | **Unit** | **Test Method** |
| Rockwell Hardness | | | | ASTM D785 |
| M-Scale | 110 | -- | | |
| R-Scale | 125 | -- | | |
| **Mechanical** | **Dry** | **Conditioned** | **Unit** | **Test Method** |
| Tensile Strength | 170 | 115 | MPa | ASTM D638 |
| Tensile Elongation (Break) | 4.0 | 7.0 | % | ASTM D638 |
| Flexural Modulus | 8500 | -- | MPa | ASTM D790 |
| Flexural Strength | 240 | -- | MPa | ASTM D790 |
| **Impact** | **Dry** | **Conditioned** | **Unit** | **Test Method** |
| Notched Izod Impact (23°C) | 130 | -- | J/m | ASTM D256 |
| **Thermal** | **Dry** | **Conditioned** | **Unit** | **Test Method** |
| Deflection Temperature Under Load | | | | ASTM D648 |

| | | | | |
|---|---|---|---|---|
| 0.45 MPa, Unannealed | 220 | -- | °C | |
| 1.8 MPa, Unannealed | 207 | -- | °C | |
| Melting Temperature | 220 | -- | °C | ASTM D2117 |
| Electrical | Dry | Conditioned | Unit | Test Method |
| Surface Resistivity | 1.0E+11 | -- | ohms | IEC 60093 |
| Volume Resistivity | 1.0E+15 | 1.0E+12 | 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 270 | | °C | |
| Mold Temperature | 80.0 to 100 | | °C | |
| NOTE | | | | |
| 1. | Immersed | | | |



## Recommended distributors for this material

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