

# Next Nylon 6 Industrial Series NG15-02BK

Polyamide 6

Next Polymers Ltd.

Message:

Description  
PA6 Glass Fiber Reinforced Black Compound  
Product Applications  
This grade is used for Industrial application  
Benefits  
Good combination between thermal and mechanical properties

| General Information               |      |                                  |                   |             |
|-----------------------------------|------|----------------------------------|-------------------|-------------|
| Filler / Reinforcement            |      | Glass Fiber,15% Filler by Weight |                   |             |
| Uses                              |      | Industrial 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                  | 1.24 | --                               | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage                 |      |                                  |                   | ASTM D955   |
| Flow                              | 0.40 | --                               | %                 |             |
| Across Flow                       | 1.1  | --                               | %                 |             |
| Water Absorption                  |      |                                  |                   | ASTM D570   |
| 23°C, 24 hr                       | 2.1  | --                               | %                 |             |
| Saturation <sup>1</sup>           | 6.9  | --                               | %                 |             |
| Hardness                          | Dry  | Conditioned                      | Unit              | Test Method |
| Rockwell Hardness                 |      |                                  |                   | ASTM D785   |
| M-Scale                           | 105  | --                               |                   |             |
| R-Scale                           | 120  | --                               |                   |             |
| Mechanical                        | Dry  | Conditioned                      | Unit              | Test Method |
| Tensile Strength                  | 90.0 | 65.0                             | MPa               | ASTM D638   |
| Tensile Elongation (Break)        | 4.0  | 7.0                              | %                 | ASTM D638   |
| Flexural Modulus                  | 4800 | 2600                             | MPa               | ASTM D790   |
| Flexural Strength                 | 140  | 110                              | MPa               | ASTM D790   |
| Impact                            | Dry  | Conditioned                      | Unit              | Test Method |
| Notched Izod Impact (23°C)        | 49   | 78                               | J/m               | ASTM D256   |
| Thermal                           | Dry  | Conditioned                      | Unit              | Test Method |
| Deflection Temperature Under Load |      |                                  |                   | ASTM D648   |
| 0.45 MPa, Unannealed              | 210  | --                               | °C                |             |

|                                    |              |             |         |             |
|------------------------------------|--------------|-------------|---------|-------------|
| 1.8 MPa, Unannealed                | 185          | --          | °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                  | 28           | 25          | kV/mm   | IEC 60243-1 |
| Comparative Tracking Index         | 500          | --          | 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                   | 230 to 240   |             | °C      |             |
| Middle Temperature                 | 240 to 250   |             | °C      |             |
| Front Temperature                  | 250 to 260   |             | °C      |             |
| Mold Temperature                   | 65.0 to 85.0 |             | °C      |             |
| NOTE                               |              |             |         |             |

1. Immersed

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