

# Next Nylon 6 Industrial Series NXF-02WH

Polyamide 6

Next Polymers Ltd.

Message:

Description  
PA6 Un Filled FR White compound  
Product Applications  
Connectvity -junction block, Terminal blocks, connectors etc  
Benefits  
Excellent mold ability with good stiffness & UL-94 V0 at 0.8mm thickness.

| General Information        |      |                                                     |                   |             |
|----------------------------|------|-----------------------------------------------------|-------------------|-------------|
| Features                   |      | Rigid, good<br>Good formability<br>Flame retardancy |                   |             |
| Uses                       |      | Connector                                           |                   |             |
| Agency Ratings             |      | EC 1907/2006 (REACH)                                |                   |             |
| RoHS Compliance            |      | RoHS compliance                                     |                   |             |
| Appearance                 |      | White                                               |                   |             |
| Processing Method          |      | Injection molding                                   |                   |             |
| Physical                   | Dry  | Conditioned                                         | Unit              | Test Method |
| Specific Gravity           | 1.17 | --                                                  | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage          |      |                                                     |                   | ASTM D955   |
| Flow                       | 1.0  | --                                                  | %                 | ASTM D955   |
| Transverse flow            | 1.1  | --                                                  | %                 | ASTM D955   |
| Water Absorption           |      |                                                     |                   | ASTM D570   |
| 23°C, 24 hr                | 2.1  | --                                                  | %                 | ASTM D570   |
| Saturation <sup>1</sup>    | 5.5  | --                                                  | %                 | ASTM D570   |
| Hardness                   | Dry  | Conditioned                                         | Unit              | Test Method |
| Rockwell Hardness          |      |                                                     |                   | ASTM D785   |
| Class m                    | 70   | --                                                  |                   | ASTM D785   |
| Class r                    | 85   | --                                                  |                   | ASTM D785   |
| Mechanical                 | Dry  | Conditioned                                         | Unit              | Test Method |
| Tensile Modulus            | 2900 | 1800                                                | MPa               | ASTM D638   |
| Tensile Strength           | 70.0 | 55.0                                                | MPa               | ASTM D638   |
| Tensile Elongation (Break) | 8.0  | 20                                                  | %                 | ASTM D638   |
| Flexural Modulus           | 2750 | --                                                  | MPa               | ASTM D790   |
| Flexural Strength          | 100  | --                                                  | MPa               | ASTM D790   |
| Impact                     | Dry  | Conditioned                                         | Unit              | Test Method |
| Notched Izod Impact (23°C) | 49   | 98                                                  | J/m               | ASTM D256   |

| Thermal                                                                          | Dry         | Conditioned | Unit    | Test Method    |
|----------------------------------------------------------------------------------|-------------|-------------|---------|----------------|
| Deflection Temperature Under Load                                                |             |             |         | ASTM D648      |
| 0.45 MPa, not annealed                                                           | 120         | --          | °C      | ASTM D648      |
| 1.8 MPa, not annealed                                                            | 70.0        | --          | °C      | ASTM D648      |
| 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+13     | ohms·cm | IEC 60093      |
| Dielectric Strength                                                              | 30          | 25          | kV/mm   | IEC 60243-1    |
| Comparative Tracking Index                                                       | > 500       | --          | V       | IEC 60112      |
| Flammability                                                                     | Dry         | Conditioned | Unit    | Test Method    |
| Flame Rating (0.800 mm)                                                          | V-0         | --          |         | UL 94          |
| Glow Wire Flammability Index (0.800 mm)                                          | 960         | --          | °C      | IEC 60695-2-12 |
| Glow Wire Ignition Temperature (0.800 mm)                                        | 750         | --          | °C      | IEC 60695-2-13 |
| Additional Information                                                           |             |             |         |                |
| 干燥                                                                               |             |             |         |                |
| This grade is not suitable for food contact, medical devices or toy applications |             |             |         |                |
| Injection                                                                        | Dry         | Unit        |         |                |
| Drying Temperature - Hot Air Dryer                                               | 80.0        | °C          |         |                |
| Drying Time                                                                      | 4.0 - 6.0   | hr          |         |                |
| Suggested Max Moisture                                                           | 0.20        | %           |         |                |
| Rear Temperature                                                                 | 230 - 240   | °C          |         |                |
| Middle Temperature                                                               | 240 - 250   | °C          |         |                |
| Front Temperature                                                                | 240 - 250   | °C          |         |                |
| Mold Temperature                                                                 | 65.0 - 85.0 | °C          |         |                |
| NOTE                                                                             |             |             |         |                |
| 1.                                                                               | Immersed    |             |         |                |

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