

# UNITIKA Nylon 6 M2350

Polyamide 6  
UNITIKA Plastics Division

Message:  
Nano composite nylon

| General Information                            |        |             |                   |             |
|------------------------------------------------|--------|-------------|-------------------|-------------|
| Forms                                          |        | Particle    |                   |             |
| Physical                                       | Dry    | Conditioned | Unit              | Test Method |
| Specific Gravity                               | 1.15   | 1.15        | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage                              |        |             |                   | ASTM D955   |
| Flow: 3.20mm                                   | 0.80   | 0.80        | %                 | ASTM D955   |
| Transverse flow: 3.20mm                        | 1.0    | 1.0         | %                 | ASTM D955   |
| Water Absorption<br>(Equilibrium, 23°C, 50%RH) | 2.8    | 2.8         | %                 |             |
| Mechanical                                     | Dry    | Conditioned | Unit              | Test Method |
| Tensile Strength (Break)                       | 88.0   | 59.0        | MPa               | ASTM D638   |
| Tensile Elongation (Break)                     | 5.0    | 6.0         | %                 | ASTM D638   |
| Flexural Modulus                               | 4000   | 1700        | MPa               | ASTM D790   |
| Flexural Strength                              | 140    | 72.0        | MPa               | ASTM D790   |
| Impact                                         | Dry    | Conditioned | Unit              | Test Method |
| Notched Izod Impact                            | 44     | 210         | J/m               | ASTM D256   |
| Thermal                                        | Dry    | Conditioned | Unit              | Test Method |
| Deflection Temperature<br>Under Load           |        |             |                   | ASTM D648   |
| 0.45 MPa, not annealed                         | 193    | --          | °C                | ASTM D648   |
| 1.8 MPa, not annealed                          | 147    | --          | °C                | ASTM D648   |
| CLTE - Flow                                    | 6.3E-5 | 6.3E-5      | cm/cm/°C          | ASTM D696   |

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