

# NYLOY® KF-0020N 6231W

Polyamide 6  
Nytex Composites Co., Ltd.

Message:  
NYLOY®KF-0020N 6231W is a polyamide 6 (nylon 6) material. This product is available in North America or Asia Pacific. NYLOY®The main characteristics of KF-0020N 6231W are: flame retardant/rated flame.

| General Information                                      |                   |                   |             |
|----------------------------------------------------------|-------------------|-------------------|-------------|
| UL YellowCard                                            | E135714-101364431 |                   |             |
| Appearance                                               | White             |                   |             |
| Physical                                                 | Nominal Value     | Unit              | Test Method |
| Specific Gravity                                         | 1.55              | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage                                        |                   |                   | ASTM D955   |
| Flow                                                     | 0.60              | %                 | ASTM D955   |
| Transverse flow                                          | 0.40              | %                 | ASTM D955   |
| Mechanical                                               | Nominal Value     | Unit              | Test Method |
| Tensile Strength                                         | 77.5              | MPa               | ASTM D638   |
| Tensile Elongation (Break)                               | 1.2               | %                 | ASTM D638   |
| Flexural Modulus                                         | 9810              | MPa               | ASTM D790   |
| Flexural Strength                                        | 118               | MPa               | ASTM D790   |
| Impact                                                   | Nominal Value     | Unit              | Test Method |
| Notched Izod Impact (23°C, 3.18 mm)                      | 27                | J/m               | ASTM D256   |
| Thermal                                                  | Nominal Value     | Unit              | Test Method |
| Deflection Temperature Under Load (0.45 MPa, Unannealed) | 215               | °C                | ASTM D648   |
| Thermal Conductivity                                     |                   |                   | ASTM E1461  |
| -- 1                                                     | 1.3               | W/m/K             | ASTM E1461  |
| -- 2                                                     | 4.5               | W/m/K             | ASTM E1461  |
| Electrical                                               | Nominal Value     | Unit              | Test Method |
| Surface Resistivity                                      | > 1.0E+12         | ohms              | ASTM D257   |
| Flammability                                             | Nominal Value     | Unit              | Test Method |
| Flame Rating (1.6 mm)                                    | V-2               |                   | UL 94       |
| NOTE                                                     |                   |                   |             |
| 1.                                                       | Through-plane     |                   |             |
| 2.                                                       | In-plane          |                   |             |

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