

# NYLOY® KF-0010N 6121W

Polyamide  
Nytex Composites Co., Ltd.

Message:  
NYLOY® KF-0010N 6121W is a Polyamide material. It is available in Asia Pacific or North America. Primary attribute of NYLOY® KF-0010N 6121W: Flame Rated.

| General Information                                      |               |                   |             |
|----------------------------------------------------------|---------------|-------------------|-------------|
| Appearance                                               | White         |                   |             |
| Physical                                                 | Nominal Value | Unit              | Test Method |
| Specific Gravity                                         | 1.93          | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage                                        |               |                   | ASTM D955   |
| Flow                                                     | 0.85          | %                 |             |
| Across Flow                                              | 0.70          | %                 |             |
| Mechanical                                               | Nominal Value | Unit              | Test Method |
| Tensile Strength                                         | 51.0          | MPa               | ASTM D638   |
| Tensile Elongation (Break)                               | 1.4           | %                 | ASTM D638   |
| Flexural Modulus                                         | 7350          | MPa               | ASTM D790   |
| Flexural Strength                                        | 88.2          | MPa               | ASTM D790   |
| Impact                                                   | Nominal Value | Unit              | Test Method |
| Notched Izod Impact (23°C, 3.18 mm)                      | 29            | J/m               | ASTM D256   |
| Thermal                                                  | Nominal Value | Unit              | Test Method |
| Deflection Temperature Under Load (0.45 MPa, Unannealed) | 195           | °C                | ASTM D648   |
| Thermal Conductivity                                     |               |                   | ASTM E1461  |
| -- <sup>1</sup>                                          | 1.0           | W/m/K             |             |
| -- <sup>2</sup>                                          | 3.5           | W/m/K             |             |
| Electrical                                               | Nominal Value | Unit              | Test Method |
| Surface Resistivity                                      | 1.0E+14       | ohms              | ASTM D257   |
| Flammability                                             | Nominal Value | Unit              | Test Method |
| Flame Rating (1.60 mm)                                   | V-0           |                   | UL 94       |
| Additional Information                                   | Nominal Value | Unit              |             |
| Breakdown Voltage                                        | > 5000        | V                 |             |
| NOTE                                                     |               |                   |             |
| 1.                                                       | Through-plane |                   |             |
| 2.                                                       | In-plane      |                   |             |

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