

# UNITIKA Nylon 6 A3030N-2

Polyamide 6

UNITIKA Plastics Division

## Message:

UNITIKA Nylon 6 A3030N-2 is a Polyamide 6 (Nylon 6) material filled with 30% mineral. It is available in Asia Pacific or North America. Primary attribute of UNITIKA Nylon 6 A3030N-2: Flame Rated.

Typical applications include:

Automotive

Construction Applications

Housings

| General Information                             |      |                              |                   |             |
|-------------------------------------------------|------|------------------------------|-------------------|-------------|
| UL YellowCard                                   |      | E47924-239974                |                   |             |
| Filler / Reinforcement                          |      | Mineral,30% Filler by Weight |                   |             |
| Uses                                            |      | Automotive Applications      |                   |             |
|                                                 |      | Automotive Electronics       |                   |             |
|                                                 |      | Automotive Under the Hood    |                   |             |
|                                                 |      | Construction Applications    |                   |             |
|                                                 |      | Electrical Housing           |                   |             |
| Forms                                           |      | Pellets                      |                   |             |
| Physical                                        | Dry  | Conditioned                  | Unit              | Test Method |
| Density                                         | 1.43 | 1.43                         | g/cm <sup>3</sup> | ISO 1183    |
| Molding Shrinkage                               |      |                              |                   | ISO 294-4   |
| Across Flow : 3.20 mm                           | 0.80 | 0.80                         | %                 |             |
| Flow : 3.20 mm                                  | 0.70 | 0.70                         | %                 |             |
| Water Absorption<br>(Equilibrium, 23°C, 50% RH) | 1.9  | 1.9                          | %                 | ISO 62      |
| Mechanical                                      | Dry  | Conditioned                  | Unit              | Test Method |
| Tensile Modulus                                 | 5400 | 2000                         | MPa               | ISO 527-2   |
| Tensile Stress (Break)                          | 75.0 | 49.0                         | MPa               | ISO 527-2   |
| Tensile Strain (Break)                          | 4.5  | 13                           | %                 | ISO 527-2   |
| Flexural Modulus                                | 4700 | 2000                         | MPa               | ISO 178     |
| Flexural Stress                                 | 125  | 52.0                         | MPa               | ISO 178     |
| Impact                                          | Dry  | Conditioned                  | Unit              | Test Method |
| Charpy Notched Impact<br>Strength               | 4.0  | 7.0                          | kJ/m <sup>2</sup> | ISO 179     |
| Charpy Unnotched Impact<br>Strength             | 50   | 52                           | kJ/m <sup>2</sup> | ISO 179     |
| Thermal                                         | Dry  | Conditioned                  | Unit              | Test Method |
| Heat Deflection<br>Temperature                  |      |                              |                   |             |
| 0.45 MPa, Unannealed                            | 194  | --                           | °C                | ISO 75-2/B  |

|                         |        |             |          |             |
|-------------------------|--------|-------------|----------|-------------|
| 1.8 MPa, Unannealed     | 108    | --          | °C       | ISO 75-2/A  |
| CLTE - Flow             | 6.0E-5 | 6.0E-5      | cm/cm/°C | ISO 11359-2 |
| Flammability            | Dry    | Conditioned |          | Test Method |
| Flame Rating (0.850 mm) | V-2    | V-2         |          | UL 94       |

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