

Niuk 40NE00

Polyamide 6

Shanghai Niuk New Plastic Technology Co., Ltd.

Message:

Niuk 40NE00 is a Polyamide 6 (Nylon 6) material. It is available in Asia Pacific.

Important attributes of Niuk 40NE00 are:

Flame Rated

Corrosion Resistant

Creep Resistant

Good Toughness

Heat Resistant

Typical applications include:

Engineering/Industrial Parts

Electrical/Electronic Applications

Automotive

Housings

| General Information | | | |
|--------------------------------|------------------------------------|-------------------|--------------|
| Features | Good Corrosion Resistance | | |
| | Good Creep Resistance | | |
| | Good Wear Resistance | | |
| | High Heat Resistance | | |
| | High Rigidity | | |
| | Ultra High Toughness | | |
| Uses | Automotive Applications | | |
| | Bearings | | |
| | Connectors | | |
| | Electrical/Electronic Applications | | |
| | Gears | | |
| | Housings | | |
| Physical | Pulleys | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| Physical | Nominal Value | Unit | Test Method |
| Density | 1.05 | g/cm ³ | ISO 1183 |
| Molding Shrinkage ¹ | | | ISO 2577 |
| Across Flow : 3.20 mm | 1.3 to 1.5 | % | |
| Flow : 3.20 mm | 1.5 to 1.6 | % | |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Stress | 45.0 | MPa | ISO 527-2/50 |
| Tensile Strain (Break) | 200 | % | ISO 527-2/50 |
| Flexural Modulus ² | 1200 | MPa | ISO 178 |
| Flexural Stress ³ | 50.0 | MPa | ISO 178 |
| Impact | Nominal Value | Unit | Test Method |

| Charpy Notched Impact Strength (23°C) | 80 | kJ/m ² | ISO 179 |
|---|----------------|-------------------|-------------|
| Charpy Unnotched Impact Strength (23°C) | No Break | | ISO 179 |
| Thermal | Nominal Value | Unit | Test Method |
| Heat Deflection Temperature | | | |
| 0.45 MPa, Unannealed | 120 | °C | ISO 75-2/B |
| 1.8 MPa, Unannealed | 50.0 | °C | ISO 75-2/A |
| Flammability | Nominal Value | | Test Method |
| Flame Rating (1.60 mm) | HB | | UL 94 |
| NOTE | | | |
| 1. | 150x100x3.2 mm | | |
| 2. | 2.0 mm/min | | |
| 3. | 2.0 mm/min | | |

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