

# Niuk 23ND40

Polycarbonate + ABS

Shanghai Niuk New Plastic Technology Co., Ltd.

## Message:

Niuk 23ND40 is a Polycarbonate + ABS (PC+ABS) material. It is available in Asia Pacific.

Important attributes of Niuk 23ND40 are:

Flame Rated

Heat Resistant

High Stiffness

Impact Resistant

Typical applications include:

Appliances

Automotive

Business/Office Goods

Electrical/Electronic Applications

Housings

| General Information                     |                                                                                        |                   |              |
|-----------------------------------------|----------------------------------------------------------------------------------------|-------------------|--------------|
| Features                                | High Heat Resistance<br>High Impact Resistance<br>High Stiffness<br>Platable           |                   |              |
| Uses                                    | Appliances<br>Automotive Applications<br>Business Equipment<br>Cell Phones<br>Housings |                   |              |
| Physical                                | Nominal Value                                                                          | Unit              | Test Method  |
| Density                                 | 1.10                                                                                   | g/cm <sup>3</sup> | ISO 1183     |
| Melt Mass-Flow Rate (MFR)               | 25                                                                                     | g/10 min          | ISO 1133     |
| Molding Shrinkage <sup>1</sup>          |                                                                                        |                   | ISO 2577     |
| Across Flow : 3.20 mm                   | 0.50 to 0.70                                                                           | %                 |              |
| Flow : 3.20 mm                          | 0.50 to 0.70                                                                           | %                 |              |
| Mechanical                              | Nominal Value                                                                          | Unit              | Test Method  |
| Tensile Stress                          | 52.0                                                                                   | MPa               | ISO 527-2/50 |
| Tensile Strain (Break)                  | 60                                                                                     | %                 | ISO 527-2/50 |
| Flexural Modulus <sup>2</sup>           | 2320                                                                                   | MPa               | ISO 178      |
| Flexural Stress <sup>3</sup>            | 85.0                                                                                   | MPa               | ISO 178      |
| Impact                                  | Nominal Value                                                                          | Unit              | Test Method  |
| Charpy Notched Impact Strength (23°C)   | 55                                                                                     | kJ/m <sup>2</sup> | 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        | 114            | °C | ISO 75-2/B   |
| 1.8 MPa, Unannealed         | 96.0           | °C | ISO 75-2/A   |
| Vicat Softening Temperature | 115            | °C | ISO 306/B120 |
| 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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