

# UBE Nylon UCNX017

Polyamide 510



## General

Generic identification and marking

Market example Automotive

Application example Hydrogen

Processing example Injection molding, Blow molding

Elemental Technology Bio-based composite material, High gas barrier, Low water absorption

Production area

Development product Applicable

| Mechanical property            | Unit              | Test standard | Typical value |
|--------------------------------|-------------------|---------------|---------------|
| Tensile strength               | MPa               | ISO527-1,2    | 70            |
| Tensile strain at break        | %                 | ISO527-1,2    | > 50          |
| Tensile modulus                | MPa               | ISO527-1,2    | 1700          |
| Flexural strength              | MPa               | ISO178        | 60            |
| Flexural modulus               | MPa               | ISO178        | 1700          |
| Charpy notched impact strength | kJ/m <sup>2</sup> | ISO179-1/1eA  | ---           |

| Thermal property | Unit | Test standard | Typical value |
|------------------|------|---------------|---------------|
|------------------|------|---------------|---------------|

| Electrical property | Unit | Test standard | Typical value |
|---------------------|------|---------------|---------------|
|---------------------|------|---------------|---------------|

| Molding property | Unit | Test standard | Typical value |
|------------------|------|---------------|---------------|
|------------------|------|---------------|---------------|

| Other property | Unit | Test standard | Typical value |
|----------------|------|---------------|---------------|
|----------------|------|---------------|---------------|

## Remarks

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in advance for a medical application or parts in contact with food stuff.

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