

# NaturePlast NP DU 102

Polyamide 1010

NaturePlast

Message:

The R&D progress allows today to produce some of the conventional polymers partially or totally from vegetable resources and no longer from fossil resources.

BioPA grades commercialized by NaturePlast have the same properties as the conventional PA and can be transformed on plastic processing standard equipments.

Markets: automotive, technical parts, packaging, textiles, etc.

Properties

Properties similar to oil based PA.

Processing easiness.

Recyclable in existing PA streams.

| General Information |                            |
|---------------------|----------------------------|
| Features            | Good Processability        |
|                     | Recyclable Material        |
|                     | Renewable Resource Content |
| Uses                | Automotive Applications    |
|                     | Engineering Parts          |
|                     | Packaging                  |
|                     | Textile Applications       |
| Forms               | Pellets                    |
| Processing Method   | Extrusion                  |
|                     | Fiber (Spinning) Extrusion |
|                     | Profile Extrusion          |

| Physical                         | Nominal Value | Unit               | Test Method |
|----------------------------------|---------------|--------------------|-------------|
| Density                          | 1.07          | g/cm <sup>3</sup>  | ISO 1183    |
| Viscosity Number                 | 220           | cm <sup>3</sup> /g | ISO 307     |
| Mechanical                       | Nominal Value | Unit               | Test Method |
| Tensile Modulus                  | 1700          | MPa                | ISO 527-2   |
| Tensile Strain (Break)           | > 50          | %                  | ISO 527-2   |
| Impact                           | Nominal Value | Unit               | Test Method |
| Charpy Unnotched Impact Strength | No Break      |                    | ISO 179     |
| Thermal                          | Nominal Value | Unit               | Test Method |
| Vicat Softening Temperature      | 171           | °C                 | ISO 306/B   |
| Additional Information           | Nominal Value | Unit               | Test Method |
| Biobased Content                 | 100           | %                  | ASTM D6866  |

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