

# UBESTA 3035LU1

Polyamide 12

UBE America, Inc.

Message:

UBESTA 3035LU1 is a polyamide 12 (nylon 12) material. This product is available in North America.  
The main features of UBESTA 3035LU1 are:  
Good dimensional stability  
good weather resistance  
chemical resistance  
Heat resistance  
The typical application areas of UBESTA 3035LU1 are: water pipes/pipes/drinking water

| General Information   |                            |                   |             |
|---|----------------------------|-------------------|-------------|
| Features  | Good dimensional stability |                   |             |
|   | Good chemical resistance   |                   |             |
|   | Good weather resistance    |                   |             |
|   | Heat resistance, high      |                   |             |
| Uses  | Piping system              |                   |             |
| Appearance  | Black                      |                   |             |
| Forms   | Powder                     |                   |             |
| Physical  | Nominal Value              | Unit              | Test Method |
| Specific Gravity  | 1.02                       | g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (235°C/2.16 kg)   | 1.3                        | g/10 min          | ASTM D1238  |
| Hardness  | Nominal Value              | Unit              | Test Method |
| Rockwell Hardness (R-Scale)   | 112                        |                   | ASTM D785   |
| Mechanical  | Nominal Value              | Unit              | Test Method |
| Tensile Strength  |                            |                   | ASTM D638   |
| Yield, 23°C   | 46.0                       | MPa               | ASTM D638   |
| Fracture, 23°C  | 56.0                       | MPa               | ASTM D638   |
| Tensile Elongation (Break, 23°C)  | 250                        | %                 | ASTM D638   |
| Flexural Modulus (23°C)   | 1590                       | MPa               | ASTM D790   |
| Flexural Strength (23°C)  | 61.0                       | MPa               | ASTM D790   |
| Impact  | Nominal Value              | Unit              | Test Method |
| Notched Izod Impact (23°C)  | 90                         | J/m               | ASTM D256   |
| Thermal   | Nominal Value              | Unit              | Test Method |
| Deflection Temperature Under Load (0.45 MPa, Unannealed)  | 149                        | °C                | ASTM D648   |
| Melting Temperature   | 178                        | °C                |             |
| Additional Information  |                            |                   |             |
| The value listed as Melting Point was tested in accordance with ASTM D3418.Tensile Strength at Break, ASTM D638, 23°C: >56 MPaTensile Elongation at Break, ASTM D638, 23°C: >250% |                            |                   |             |

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