

# UBESTA 3024 LU

Polyamide 12  
UBE Engineering Plastics, S.A.

Message:

UBESTA 3024 LU is a medium viscosity, non-reinforced and non-plasticized Polyamide 12 for injection moulding and extrusion application. UBESTA 3024 LU shows only low moisture absorption and therefore exceptional dimension stability.

| General Information |                            |
|---------------------|----------------------------|
| Additive            | heat stabilizer            |
| Features            | Good dimensional stability |
|                     | Low hygroscopicity         |
|                     | Thermal Stability          |
|                     | Medium viscosity           |
| Appearance          | Black                      |
| Forms               | Particle                   |
| Processing Method   | Extrusion                  |
|                     | Injection molding          |

| Physical                                  | Nominal Value | Unit              | Test Method |
|-------------------------------------------|---------------|-------------------|-------------|
| Density                                   | 1.02          | g/cm <sup>3</sup> | ISO 1183    |
| Melt Mass-Flow Rate (MFR) (235°C/2.16 kg) | 8.0           | g/10 min          | ISO 1133    |
| Molding Shrinkage                         |               |                   | ISO 294-4   |
| Vertical flow direction                   | 1.2           | %                 | ISO 294-4   |
| Flow direction                            | 0.90          | %                 | ISO 294-4   |
| Water Absorption (23°C, 24 hr)            | 0.60          | %                 | ISO 62      |
| Hardness                                  | Nominal Value | Unit              | Test Method |
| Rockwell Hardness (R-Scale)               | 105           |                   | ISO 2039-2  |
| Durometer Hardness (Shore D)              | 77            |                   | ISO 868     |
| Mechanical                                | Nominal Value | Unit              | Test Method |
| Tensile Stress (Yield)                    | 47.0          | MPa               | ISO 527-2   |
| Tensile Strain                            |               |                   | ISO 527-2   |
| Yield                                     | 5.0           | %                 | ISO 527-2   |
| Fracture                                  | 200           | %                 | ISO 527-2   |
| Flexural Modulus                          | 1600          | MPa               | ISO 178     |
| Flexural Stress                           | 60.0          | MPa               | ISO 178     |
| Impact                                    | Nominal Value | Unit              | Test Method |
| Charpy Notched Impact Strength            |               |                   | ISO 179/1eA |
| -40°C, complete fracture                  | 6.0           | kJ/m <sup>2</sup> | ISO 179/1eA |
| 23°C, complete fracture                   | 6.0           | kJ/m <sup>2</sup> | ISO 179/1eA |

| Thermal                     | Nominal Value | Unit     | Test Method |
|-----------------------------|---------------|----------|-------------|
| Heat Deflection Temperature |               |          |             |
| 0.45 MPa, not annealed      | 115           | °C       | ISO 75-2/B  |
| 1.8 MPa, not annealed       | 47.0          | °C       | ISO 75-2/A  |
| Melting Temperature (DSC)   | 178           | °C       | ISO 3146    |
| CLTE - Flow                 | 1.3E-4        | cm/cm/°C | ISO 11359-2 |
| Electrical                  | Nominal Value | Unit     | Test Method |
| Volume Resistivity          | 1.0E+15       | ohms·cm  | IEC 60093   |
| Additional Information      |               |          |             |

The value listed as Melting Temperature, ISO 3146, was tested in accordance with ISO 11357. Tensile Strain at Break, ISO 527: >200% Abrasion Loss, ISO 9352, CS-17, 1000 rev.: 6 mg

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