

# UBESTA 3030 LUX

Polyamide 12  
UBE Engineering Plastics, S.A.

Message:

UBESTA 3030 LUX is a non-reinforced and non-plasticized Polyamide 12 most suitable for tube extrusion. It is stabilized against weatherability and shows excellent performance for corrugated tube application.

| General Information                       |                   |                   |             |
|-------------------------------------------|-------------------|-------------------|-------------|
| Additive                                  | heat stabilizer   |                   |             |
| Features                                  | Workability, good |                   |             |
|                                           | Thermal Stability |                   |             |
| Uses                                      | Pipe fittings     |                   |             |
| Appearance                                | Black             |                   |             |
| Forms                                     | Particle          |                   |             |
| Processing Method                         | Extrusion         |                   |             |
| 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) | 3.0               | g/10 min          | ISO 1133    |
| Molding Shrinkage                         |                   |                   | ISO 294-4   |
| Vertical flow direction                   | 1.5               | %                 | ISO 294-4   |
| Flow direction                            | 0.60              | %                 | 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)              | 78                |                   | 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                          | 1500              | 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                   | 13                | kJ/m <sup>2</sup> | ISO 179/1eA |
| Thermal                                   | Nominal Value     | Unit              | Test Method |
| Heat Deflection Temperature               |                   |                   |             |
| 0.45 MPa, not annealed                    | 112               | °C                | ISO 75-2/B  |

| 1.8 MPa, not annealed     | 49.0          | °C       | ISO 75-2/A  |
|---------------------------|---------------|----------|-------------|
| Melting Temperature (DSC) | 178           | °C       | ISO 3146    |
| CLTE - Flow               | 1.2E-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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