

# UBESTA 3030 JFX1

Polyamide 12

UBE Engineering Plastics, S.A.

## Message:

UBESTA 3030 JFX1 is a plasticized Polyamide 12 stabilized against weatherability. The grade is most suitable for the extrusion of pneumatic tubes.

| General Information                       |                         |                   |             |
|-------------------------------------------|-------------------------|-------------------|-------------|
| Additive                                  | heat stabilizer         |                   |             |
|                                           | Plasticizer             |                   |             |
| Features                                  | Plasticized             |                   |             |
|                                           | Workability, good       |                   |             |
|                                           | Good weather resistance |                   |             |
|                                           | Thermal Stability       |                   |             |
| Uses                                      | Pipe fittings           |                   |             |
| Agency Ratings                            | DIN 73378               |                   |             |
| Appearance                                | Natural color           |                   |             |
| Forms                                     | Particle                |                   |             |
| Processing Method                         | Extrusion               |                   |             |
| Physical                                  | Nominal Value           | Unit              | Test Method |
| Density                                   | 1.03                    | g/cm <sup>3</sup> | ISO 1183    |
| Melt Mass-Flow Rate (MFR) (235°C/2.16 kg) | 7.0                     | g/10 min          | ISO 1133    |
| Molding Shrinkage                         |                         |                   | ISO 294-4   |
| Vertical flow direction                   | 1.5                     | %                 | 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)               | 62                      |                   | ISO 2039-2  |
| Durometer Hardness (Shore D)              | 70                      |                   | ISO 868     |
| Mechanical                                | Nominal Value           | Unit              | Test Method |
| Tensile Stress (Yield)                    | 26.0                    | MPa               | ISO 527-2   |
| Tensile Strain                            |                         |                   | ISO 527-2   |
| Yield                                     | 24                      | %                 | ISO 527-2   |
| Fracture                                  | 200                     | %                 | ISO 527-2   |
| Flexural Modulus                          | 400                     | MPa               | ISO 178     |
| Flexural Stress                           | 20.0                    | MPa               | ISO 178     |
| Impact                                    | Nominal Value           | Unit              | Test Method |
| Charpy Notched Impact Strength            |                         |                   | ISO 179/1eA |

| -40°C, complete fracture    | 3.0           | kJ/m <sup>2</sup> | ISO 179/1eA |
|-----------------------------|---------------|-------------------|-------------|
| 23°C, local fracture        | 120           | kJ/m <sup>2</sup> | ISO 179/1eA |
| Thermal                     | Nominal Value | Unit              | Test Method |
| Heat Deflection Temperature |               |                   |             |
| 0.45 MPa, not annealed      | 80.0          | °C                | ISO 75-2/B  |
| 1.8 MPa, not annealed       | 45.0          | °C                | ISO 75-2/A  |
| Melting Temperature (DSC)   | 171           | °C                | ISO 3146    |
| CLTE - Flow                 | 1.9E-4        | cm/cm/°C          | ISO 11359-2 |
| Electrical                  | Nominal Value | Unit              | Test Method |
| Volume Resistivity          | 1.0E+12       | 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.: 8 mg

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