

UBESTA 3012 U

Polyamide 12

UBE Engineering Plastics, S.A.

Message:

UBESTA 3012 U is a heat stabilized, natural PA12 suitable for application which demand good flow-ability of the polymer. UBESTA 3012 U offers good viscosity stability in compounding of highly filled systems as used for plastics magnets. UBESTA 3012 U shows only low moisture absorption and therefore exceptional dimension stability.

| General Information | | | |
|--|----------------------------|----------|-------------|
| Additive | heat stabilizer | | |
| Features | Good dimensional stability | | |
| | Low hygroscopicity | | |
| | Good formability | | |
| | Good liquidity | | |
| | Heat resistance, high | | |
| | Thermal Stability | | |
| Appearance | Natural color | | |
| Forms | Particle | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.02 | g/cm³ | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (190°C/1.0 kg) | 14 | g/10 min | ASTM D1238 |
| Water Absorption (23°C, 24 hr) | 0.25 | % | ASTM D570 |
| Hardness | Nominal Value | Unit | Test Method |
| Rockwell Hardness (R-Scale) | 110 | | ASTM D785 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength | | | ASTM D638 |
| Yield | 37.0 | MPa | ASTM D638 |
| Fracture, -10°C | 63.0 | MPa | ASTM D638 |
| Fracture, 23°C | 50.0 | MPa | ASTM D638 |
| Tensile Elongation (Break) | 250 | % | ASTM D638 |
| Flexural Modulus | 1420 | MPa | ASTM D790 |
| Flexural Strength | 55.0 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (23°C) | 39 | J/m | ASTM D256 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (0.45 MPa, Unannealed) | 145 | °C | ASTM D648 |
| Peak Melting Temperature | 176 - 180 | °C | ASTM D3418 |
| Additional Information | | | |

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