

**UBE UBESTA® 3030U Nylon 12 (After Ethylene Glycol for 500 hours)**

Category : Polymer , Thermoplastic , Nylon , Nylon 12

**Material Notes:**

Description: UBESTA has a strong resistance to chemicals. Under normal conditions, it is not significantly affected by alkalis, alcohols, ethers, ketones, hydrocarbons, lubricating oils, gasoline, cleaning agents, water, seawater and other chemicals. Compared with other types of plastics, UBESTA is particularly resistant to oils, and it displays strong resistance to organic acids and metal chlorides which adversely affect Nylon 12 and Nylon 66. Information provided by UBE.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_UBE-UBESTA-3030U-Nylon-12-After-Ethylene-Glycol-for-500-hours.php](http://www.lookpolymers.com/polymer_UBE-UBESTA-3030U-Nylon-12-After-Ethylene-Glycol-for-500-hours.php)

| Mechanical Properties     | Metric   | English  | Comments  |
|---------------------------|----------|----------|-----------|
| Tensile Strength at Break | 49.4 MPa | 7160 psi | 98% Ret.  |
| Tensile Strength, Yield   | 44.6 MPa | 6470 psi | 106% Ret. |
| Elongation at Break       | 89 %     | 89 %     | 111% Ret. |

| Processing Properties  | Metric     | English    | Comments   |
|------------------------|------------|------------|--|
| Processing Temperature | 230 °C     | 446 °F     | Flange Temperature for T-Die Cast Film Extrusion     |
| Zone 1                 | 190 °C     | 374 °F     | For T-Die Cast Film Extrusion                        |
|                        | 230 °C     | 446 °F     | For 8x1 mm Tube Extrusion                            |
| Zone 2                 | 210 °C     | 410 °F     | For T-Die Cast Film Extrusion                        |
|                        | 225 °C     | 437 °F     | For 8x1 mm Tube Extrusion                            |
| Zone 3                 | 220 °C     | 428 °F     | For 8x1 mm Tube Extrusion                            |
|                        | 230 °C     | 446 °F     | For T-Die Cast Film Extrusion                        |
| Zone 4                 | 215 °C     | 419 °F     | For 8x1 mm Tube Extrusion                            |
| Die Temperature        | 230 °C     | 446 °F     | For T-Die Cast Film Extrusion                        |
| Die Opening            | 0.0400 cm  | 0.0157 in  | For T-Die Cast Film Extrusion                        |
| Roll Temperature       | 50.0 °C    | 122 °F     | Chill Roll Temperature for T-Die Cast Film Extrusion |
| Drying Temperature     | 80.0 °C    | 176 °F     | Option 1   |
|                        | 100 °C     | 212 °F     | Option 2   |
|                        | 110 °C     | 230 °F     | Option 3   |
| Dry Time               | 2 - 4 hour | 2 - 4 hour | Option 3   |

| Processing Properties | Metric<br>4 - 8 hour | English<br>4 - 8 hour | Comments<br>Option 2      |
|-----------------------|----------------------|-----------------------|---------------------------|
|                       | 6 - 8 hour           | 6 - 8 hour            | Option 1                  |
| Screw Speed           | 15 - 76 rpm          | 15 - 76 rpm           | For 8x1 mm Tube Extrusion |

| Descriptive Properties     | Value                          | Comments                      |
|----------------------------|--------------------------------|-------------------------------|
| C/R                        | 3-3.5:1                        | For 8x1 mm Tube Extrusion     |
| Calibrating Vacuum         | 100 mbar                       | For 8x1 mm Tube Extrusion     |
| Calibration                | 9.95 mm                        | For 8x1 mm Tube Extrusion     |
| Compression Ratio          | min 3:1                        | For 8x1 mm Tube Extrusion     |
| Die Diameter               | 16 mm                          | For 8x1 mm Tube Extrusion     |
| Die Width                  | 300 mm                         | For T-Die Cast Film Extrusion |
| Extruder                   | Barmag, Screw Diameter = 30 mm | For T-Die Cast Film Extrusion |
| Extruder Characteristics   | 65 mm screw diameter           | For 8x1 mm Tube Extrusion     |
| Film Thickness             | 60 microns                     | For T-Die Cast Film Extrusion |
| Haul Off Speed             | 5 m/min                        | For T-Die Cast Film Extrusion |
| Haul Speed                 | 10-55 m/min                    | For 8x1 mm Tube Extrusion     |
| L/D Ratio                  | 25:1                           | For 8x1 mm Tube Extrusion     |
| Length of Compression Zone | 30% of screw length            | For 8x1 mm Tube Extrusion     |
| Length of Feeding Zone     | 30-40% of screw length         | For 8x1 mm Tube Extrusion     |
| Length of Metering Zone    | 30-45% of screw length         | For 8x1 mm Tube Extrusion     |
| Mandrel Diameter           | 12 mm                          | For 8x1 mm Tube Extrusion     |
| Tensile Work To Break      | 898 kJ/m <sup>2</sup>          | 111% Ret.                     |
| Water Temperature          | 10-18°C                        | For 8x1 mm Tube Extrusion     |

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