

UBE UBESTA® 3030U Nylon 12 (After Oil (ASTM D471 No. 1) for 1000 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-Oil-ASTM-D471-No-1-for-1000-hours.php

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	51.3 MPa	7440 psi	102% Ret.
Tensile Strength, Yield	44.2 MPa	6410 psi	105% Ret.
Elongation at Break	92 %	92 %	115% 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 4 - 8 hour	English 4 - 8 hour	Comments 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	972 kJ/m ²	120% Ret.
Water Temperature	10-18°C	For 8x1 mm Tube Extrusion

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