

UBE UBESTA® 3030U Nylon 12

Category : Polymer , Thermoplastic , Nylon , Nylon 12

Material Notes:

Description: UBESTA has a strong resistance to chemicals Information provided by UBE.

Order this product through the following link:

http://www.lookpolymers.com/polymer_UBE-UBESTA-3030U-Nylon-12.php

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	50.5 MPa	7320 psi	
Tensile Strength, Yield	41.9 MPa	6080 psi	
Elongation at Break	80 %	80 %	

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
	4 - 6 hour	4 - 6 hour	Option 2
	6 - 8 hour	6 - 8 hour	Option 1

Processing Properties	Metric	English	Comments
Screw Speed	15 - 75 rpm	15 - 75 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	812 kJ/m ²	
Water Temperature	10-18°C	For 8x1 mm Tube Extrusion

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