

UBE UBESTA® 3030JLX1 8x1 mm Black Automotive Grade Nylon 12 Tube

Category : Polymer , Thermoplastic , Nylon , Nylon 12 , Nylon 12, Extrusion/Tubing Grade

Material Notes:

Description: UBE UBESTA® Automotive grade Nylon 12 tube
Performance: plasticized, stabilized against weatherability (DIN 73378)

Nomenclature = PA12 PHL) Information provided by UBE.

Order this product through the following link:

http://www.lookpolymers.com/polymer_UBE-UBESTA-3030JLX1-8x1-mm-Black-Automotive-Grade-Nylon-12-Tube.php

Mechanical Properties	Metric	English	Comments
Elongation at Break	280 %	280 %	
Impact	NB	NB	conditioned
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	NB	NB	dry
	@Temperature -40.0 °C	@Temperature -40.0 °F	

Processing Properties	Metric	English	Comments
Processing Temperature	230 °C	446 °F	Flange Temperature for T-Die Cast Film Extrusion
Feed Temperature	40.0 °C	104 °F	Injection Molding
Zone 1	190 °C	374 °F	For T-Die Cast Film Extrusion
	210 °C	410 °F	Injection Molding
Zone 2	230 °C	446 °F	For 8x1 mm Tube Extrusion
	210 °C	410 °F	For T-Die Cast Film Extrusion
Zone 3	220 °C	428 °F	Injection Molding
	225 °C	437 °F	For 8x1 mm Tube Extrusion
Zone 4	220 °C	428 °F	For 8x1 mm Tube Extrusion
	230 °C	446 °F	For T-Die Cast Film Extrusion
Zone 5	230 °C	446 °F	Injection Molding
	215 °C	419 °F	For 8x1 mm Tube Extrusion
Die Temperature	230 °C	446 °F	For T-Die Cast Film Extrusion

Processing Properties	Metric	English	Comments
Mold Temperature	40.0 - 60.0 °C	100 - 140 °F	Injection Molding
Injection Velocity	100 mm/sec	3.94 in/sec	Injection Molding
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
Injection Pressure	40.0 - 50.0 MPa	5800 - 7250 psi	Injection Molding (Injection pressure should be increased when molding thin wall parts. Pressure up to 75 bar can be used here.)
Hold Pressure	25.0 - 50.0 MPa	3630 - 7250 psi	Injection Molding
Back Pressure	5.00 MPa	725 psi	Injection Molding
Screw Speed	15 - 76 rpm	15 - 76 rpm	For 8x1 mm Tube Extrusion

Descriptive Properties	Value	Comments
Burst Pressure	7 MPa	
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	2.5-3.5:1	Injection Molding
	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

Descriptive Properties	Value	Comments
Flight Depth in the Feeding Zone	10-15% of Screw Diameter	Injection Molding
Flight Depth in the Metering Zone	5-7% of Screw Diameter	Injection Molding
Haul Off Speed	5 m/min	For T-Die Cast Film Extrusion
Haul Speed	10-55 m/min	For 8x1 mm Tube Extrusion
Hoop Stress	24 MPa	
L/D Ratio	25:1	For 8x1 mm Tube Extrusion
	min 20:1	Injection Molding
Length of Compression Zone	25-45% of total screw length	Injection Molding
	30% of screw length	For 8x1 mm Tube Extrusion
Length of Feeding Zone	20-40% of total screw length	Injection Molding
	30-40% of screw length	For 8x1 mm Tube Extrusion
Length of Metering Zone	30-45% of screw length	For 8x1 mm Tube Extrusion
	35-45% of total screw length	Injection Molding
Mandrel Diameter	12 mm	For 8x1 mm Tube Extrusion
Minimum Bending Radius	20 mm	
Peripheral screw speed	10 m/min	Injection Molding
Tensile Strength	830 N	
Water Temperature	10-18°C	For 8x1 mm Tube Extrusion

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