

UBE UBESTA® 3024NUX Short Cycle Time Electronic Grade Nylon 12

Category : Polymer , Thermoplastic , Nylon , Nylon 12

Material Notes:

Description: UBESTA Nylon 12 has an excellent termite resistance than other plastics. UBESTA contributes as a material for jacket and sheath which lay for telephone and telegram Communication Systems through the world. Comments: non plasticized Information provided by UBE.

Order this product through the following link:

http://www.lookpolymers.com/polymer_UBE-UBESTA-3024NUX-Short-Cycle-Time-Electronic-Grade-Nylon-12.php

Physical Properties	Metric	English	Comments
Density	1.02 g/cc	0.0368 lb/in ³	ASTM D792
Melt Flow	13 g/10 min @Load 2.16 kg, Temperature 235 °C	13 g/10 min @Load 4.76 lb, Temperature 455 °F	ASTM D1238R

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	75	75	ASTM D2240
Tensile Strength at Break	>= 54.0 MPa	>= 7830 psi	ASTM D638
Tensile Strength, Yield	43.0 MPa	6240 psi	ASTM D638
Elongation at Break	>= 250 %	>= 250 %	ASTM D638
Flexural Strength	54.0 MPa	7830 psi	ASTM D790
Flexural Modulus	1.45 GPa	210 ksi	ASTM D790
Izod Impact, Notched	0.670 J/cm	1.26 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	178 °C	352 °F	ASTM D3418
Deflection Temperature at 0.46 MPa (66 psi)	145 °C	293 °F	ASTM D648

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

Processing Properties	200 °C Metric	392 °F English	Injection Molding Comments
	230 °C	446 °F	For 8x1 mm Tube Extrusion
Zone 2	210 °C	410 °F	For T-Die Cast Film Extrusion
	210 °C	410 °F	Injection Molding
	225 °C	437 °F	For 8x1 mm Tube Extrusion
Zone 3	220 °C	428 °F	For 8x1 mm Tube Extrusion
	220 °C	428 °F	Injection Molding
	230 °C	446 °F	For T-Die Cast Film Extrusion
Zone 4	215 °C	419 °F	For 8x1 mm Tube Extrusion
	220 °C	428 °F	Injection Molding
Zone 5	210 °C	410 °F	Injection Molding
Die Temperature	230 °C	446 °F	For T-Die Cast Film Extrusion
Mold Temperature	40.0 - 60.0 °C	104 - 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
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
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
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
Peripheral screw speed	10 m/min	Injection Molding
Water Temperature	10-18°C	For 8x1 mm Tube Extrusion

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