

UBE PAE1201U Nylon Elastomer

Category : Polymer , Thermoplastic , Nylon

Material Notes:

Description: UBESTA Nylon 12 Elastomer Information provided by UBE.

Order this product through the following link:

http://www.lookpolymers.com/polymer_UBE-PAE1201U-Nylon-Elastomer.php

Physical Properties	Metric	English	Comments
Density	1.00 g/cc	0.0361 lb/in ³	ASTM D792
Melt Flow	8.6 g/10 min @Load 2.16 kg, Temperature 235 °C	8.6 g/10 min @Load 4.76 lb, Temperature 455 °F	ASTM D1238R

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	65	65	
Tensile Strength, Yield	19.0 MPa	2760 psi	ASTM D638
Elongation at Break	>= 300 %	>= 300 %	ASTM D638
Flexural Strength	16.0 MPa	2320 psi	ASTM D790
Flexural Modulus	0.360 GPa	52.2 ksi	ASTM D790
Izod Impact, Notched	1.70 J/cm	3.18 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	165 °C	329 °F	ASTM D3418
Deflection Temperature at 0.46 MPa (66 psi)	110 °C	230 °F	ASTM D648

Processing Properties	Metric	English	Comments
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

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

Descriptive Properties	Value	Comments
Compression Ratio	2.3-3.5:1	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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