

Tisan TISLAMID® 6 Flame Retardant (V0) Heat Stabilized Nylon 6

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Unreinforced, Flame Retardant

Material Notes:

TISLAMID has a wide area of application in electric/electronic, automotive, durable goods and telecommunications industries. It demonstrates characteristics such as Excellent chemical resistanceElectric isolationEasy processabilityHigh mechanical resistanceExcellent flame retardanceHigh moisture absorptionExcellent temperature resistanceHigh performance / affordable priceAbrasion resistanceTISLAMID has an excellent resistance to weak alkalis and organic solvents. It has a good resistance to weak acids, alcohols, hydrocarbons, and engine fuels. It has a medium resistance to strong alkalis and a weak resistance to strong acids.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Tisan-TISLAMID-6-Flame-Retardant-V0-Heat-Stabilized-Nylon-6.php

Physical Properties	Metric	English	Comments
Density	1.33 g/cc	0.0480 lb/in ³	ISO 1183

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	70.0 MPa	10200 psi	ISO 527-2
Tensile Strength, Yield	75.0 MPa	10900 psi	ISO 527-2
Elongation at Break	4.2 %	4.2 %	ISO 527-2
Elongation at Yield	4.5 %	4.5 %	ISO 527-2
Modulus of Elasticity	3.70 GPa	537 ksi	ISO 527-2
Izod Impact, Notched (ISO)	5.00 kJ/m ²	2.38 ft-lb/in ²	ISO 180

Thermal Properties	Metric	English	Comments
Melting Point	220 - 225 °C	428 - 437 °F	
Vicat Softening Point	205 °C	401 °F	ISO 306
Heat Distortion Temperature	197 °C	387 °F	ISO 75-2
Flammability, UL94	V-0	V-0	
Glow Wire Test	960 °C	1760 °F	60695-2-10

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	250 V	250 V	TS EN 60112

Processing Properties	Metric	English	Comments
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Feed Temperature Processing Properties	60.0 - 80.0 °C Metric	140 - 176 °F English	Comments
Rear Barrel Temperature	220 - 240 °C	428 - 464 °F	Aft-1. Region Temperature
Middle Barrel Temperature	220 - 240 °C	428 - 464 °F	Mid-2. Region Temperature
Front Barrel Temperature	220 - 240 °C	428 - 464 °F	Pre-3. Region Temperature
Nozzle Temperature	210 - 230 °C	410 - 446 °F	
Melt Temperature	220 - 240 °C	428 - 464 °F	
Drying Temperature	90.0 - 100 °C	194 - 212 °F	Predrying Temperature
Dry Time	3 - 4 hour	3 - 4 hour	Predrying Time
Moisture Content	2.5 %	2.5 %	ISO 62

Descriptive Properties	Value	Comments
Block Temperature	60-80°C	

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