

Tisan TISLAMID® 6 Flame Retardant (V0). Halogen Free 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 resistance Electric isolation Easy processability High mechanical resistance Excellent flame retardance High moisture absorption Excellent temperature resistance High performance / affordable price Abrasion resistance TISLAMID 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-Halogen-Free-Heat-Stabilized-Nylon-6.php

Physical Properties	Metric	English	Comments
Density	1.18 g/cc	0.0426 lb/in ³	ISO 1183

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	68.0 MPa	9860 psi	ISO 527-2
Tensile Strength, Yield	72.0 MPa	10400 psi	ISO 527-2
Elongation at Break	4.2 %	4.2 %	ISO 527-2
Elongation at Yield	4.3 %	4.3 %	ISO 527-2
Modulus of Elasticity	3.45 GPa	500 ksi	ISO 527-2
Izod Impact, Notched (ISO)	4.00 kJ/m ²	1.90 ft-lb/in ²	ISO 180

Thermal Properties	Metric	English	Comments
Melting Point	220 - 225 °C	428 - 437 °F	
Vicat Softening Point	203 °C	397 °F	ISO 306
Heat Distortion Temperature	191 °C	376 °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	550 V	550 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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