

Tisan TISLAMID® 6 30% Mineral Reinforced Nylon 6

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 30% Mineral Filled

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-6-30-Mineral-Reinforced-Nylon-6.php

Physical Properties	Metric	English	Comments
Density	1.36 g/cc	0.0491 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.0090 cm/cm	0.0090 in/in	
Ash	30 %	30 %	ISO 3451

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	82	82	ISO 868
Tensile Strength at Break	71.0 MPa	10300 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	4.25 %	4.25 %	ISO 527-2
Modulus of Elasticity	4.50 GPa	653 ksi	ISO 527-2
Izod Impact, Notched (ISO)	6.00 kJ/m ²	2.86 ft-lb/in ²	ISO 180

Thermal Properties	Metric	English	Comments
Melting Point	220 - 225 °C	428 - 437 °F	
Vicat Softening Point	200 °C	392 °F	ISO 306
Heat Distortion Temperature	200 °C	392 °F	ISO 75-2
Flammability, UL94	HB	HB	
Glow Wire Test	650 °C	1200 °F	60695-2-10

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	500 V	500 V	TS EN 60112

Processing Properties	Metric	English	Comments
Feed Temperature	60.0 - 80.0 °C	140 - 176 °F	
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	2.0 %	2.0 %	ISO 62

Descriptive Properties	Value	Comments
Block Temperature	60-80°C	

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