

Tisan TISLAMID® 6 15% Glass Fiber Reinforced Nylon 6

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 20% Glass Fiber 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-6-15-Glass-Fiber-Reinforced-Nylon-6.php

Physical Properties	Metric	English	Comments
Density	1.24 g/cc	0.0448 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.0030 cm/cm	0.0030 in/in	
Ash	15 %	15 %	ISO 3451

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	84	84	ISO 868
Tensile Strength at Break	115 MPa	16700 psi	ISO 527-2
Tensile Strength, Yield	120 MPa	17400 psi	ISO 527-2
Elongation at Break	3.6 %	3.6 %	ISO 527-2
Elongation at Yield	3.75 %	3.75 %	ISO 527-2
Modulus of Elasticity	5.50 GPa	798 ksi	ISO 527-2
Izod Impact, Notched (ISO)	7.00 kJ/m ²	3.33 ft-lb/in ²	ISO 180

Thermal Properties	Metric	English	Comments
Melting Point	220 - 225 °C	428 - 437 °F	
Vicat Softening Point	210 °C	410 °F	ISO 306
Heat Distortion Temperature	215 °C	419 °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	2.5 %	2.5 %	ISO 62

Descriptive Properties	Value	Comments
Block Temperature	60-80°C	

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