

Tisan TISLAMID® 6 30% Glass Fiber Reinforced Nylon 6

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 30% 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 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-6-30-Glass-Fiber-Reinforced-Nylon-6.php

Physical Properties	Metric	English	Comments
Density	1.36 g/cc	0.0491 lb/in³	ISO 1183
Linear Mold Shrinkage	0.0030 cm/cm	0.0030 in/in	
Ash	30 %	30 %	ISO 3451

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	84	84	ISO 868
Tensile Strength at Break	160 MPa	23200 psi	ISO 527-2
Tensile Strength, Yield	165 MPa	23900 psi	ISO 527-2
Elongation at Break	2.75 %	2.75 %	ISO 527-2
Elongation at Yield	3.0 %	3.0 %	ISO 527-2
Modulus of Elasticity	9.00 GPa	1310 ksi	ISO 527-2
Izod Impact, Notched (ISO)	14.0 kJ/m²	6.66 ft-lb/in²	ISO 180

Thermal Properties	Metric	English	Comments
Melting Point	220 - 225 °C	428 - 437 °F	
Vicat Softening Point	215 °C	419 °F	ISO 306
Heat Distortion Temperature	220 °C	428 °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	550 V	550 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	1.9 %	1.9 %	ISO 62

Descriptive Properties	Value	Comments
Block Temperature	60-80°C	