

Tisan TISOPLen® 40% Talc Filled Heat Stabilized Homopolymer Polypropylene

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene with 40% Talc Filler

Material Notes:

TISOPLen has a wide area of application in furniture, durable goods, household appliances, electrics/electronics, and telecommunication industries. General specifications include Low density, Low moisture intake, High impact resistance, Excellent chemical resistance, Electrical isolation, High performance/affordable price, Easy processability. Mineral filled TISOPLen compounds have a long lasting thermal-dimensional stability, increased mechanical and hardness characteristics, decreased mold shrinkage and improved surface appearance. Glass fiber reinforcement will impart high tensile strength and impact resistance and yield improvements in thermal characteristics of TISOPLen products. Excellent resistance to weak acids, weak alkalis, and strong alkalis. Good resistance to strong acids and alcohols. Medium resistance to hydrocarbons and engine fuels. Weak resistance to organic solvents.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Tisan-TISOPLen-40-Talc-Filled-Heat-Stabilized-Homopolymer-Polypropylene.php

Physical Properties	Metric	English	Comments
Density	1.24 g/cc	0.0448 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.0060 cm/cm	0.0060 in/in	
Melt Flow	18 g/10 min	18 g/10 min	ISO 1133
Ash	40 %	40 %	ISO 3451

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	29.0 MPa	4210 psi	ISO 527-2
Tensile Strength, Yield	30.0 MPa	4350 psi	ISO 527-2
Elongation at Break	24 %	24 %	ISO 527-2
Elongation at Yield	25 %	25 %	ISO 527-2
Modulus of Elasticity	3.80 GPa	551 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	165 °C	329 °F	
Vicat Softening Point	130 °C	266 °F	ISO 306
Heat Distortion Temperature	137 °C	279 °F	ISO 75-2
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	600 V	600 V	TS EN 60112

Processing Properties	Metric	English	Comments
Feed Temperature	70.0 °C	158 °F	
Rear Barrel Temperature	190 - 210 °C	374 - 410 °F	Aft-1. Region Temperature
Middle Barrel Temperature	190 - 210 °C	374 - 410 °F	Mid-2. Region Temperature
Front Barrel Temperature	190 - 210 °C	374 - 410 °F	Pre-3. Region Temperature
Nozzle Temperature	200 °C	392 °F	
Melt Temperature	170 - 190 °C	338 - 374 °F	
Drying Temperature	80.0 °C	176 °F	Predrying Temperature
Dry Time	1 hour	1 hour	Predrying Time
Moisture Content	0.010 %	0.010 %	ISO 62

Descriptive Properties	Value	Comments
Block Temperature	45°C	

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