

Tisan TISOPLen® 40% Calcite Filled Heat Stabilized Homopolymer Polypropylene

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene with 40% Calcium Carbonate (CaCO3) 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-Calcite-Filled-Heat-Stabilized-Homopolymer-Polypropylene.php

Physical Properties	Metric	English	Comments
Density	1.23 g/cc	0.0444 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.0070 cm/cm	0.0070 in/in	
Melt Flow	16 g/10 min	16 g/10 min	ISO 1133
Ash	40 %	40 %	ISO 3451

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	72	72	ISO 868
Tensile Strength at Break	25.0 MPa	3630 psi	ISO 527-2
Tensile Strength, Yield	31.0 MPa	4500 psi	ISO 527-2
Elongation at Break	4.0 %	4.0 %	ISO 527-2
Elongation at Yield	4.0 %	4.0 %	ISO 527-2
Modulus of Elasticity	2.80 GPa	406 ksi	ISO 527-2
Izod Impact, Notched (ISO)	5.00 kJ/m ²	2.38 ft-lb/in ²	ISO 180

Thermal Properties	Metric	English	Comments
Melting Point	165 °C	329 °F	
Vicat Softening Point	132 °C	270 °F	ISO 306
Heat Distortion Temperature	145 °C	293 °F	ISO 75-2

Thermal Properties	Metric	English	Comments
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Electrical Properties	Metric	English	Comments
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Comparative Tracking Index	600 V	600 V	TS EN 60112
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Processing Properties	Metric	English	Comments
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Feed Temperature	70.0 °C	158 °F	
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Rear Barrel Temperature	190 - 210 °C	374 - 410 °F	Aft-1. Region Temperature
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Middle Barrel Temperature	190 - 210 °C	374 - 410 °F	Mid-2. Region Temperature
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Front Barrel Temperature	190 - 210 °C	374 - 410 °F	Pre-3. Region Temperature
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Nozzle Temperature	200 °C	392 °F	
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Melt Temperature	170 - 190 °C	338 - 374 °F	
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Drying Temperature	80.0 °C	176 °F	Predrying Temperature
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Dry Time	1 hour	1 hour	Predrying Time
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Moisture Content	0.010 %	0.010 %	ISO 62
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Descriptive Properties	Value	Comments
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Block Temperature	45°C	
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