

Tisan TISOPLen® 20% Calcite Filled Heat Stabilized Copolymer Polypropylene

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene with 20% 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-20-Calcite-Filled-Heat-Stabilized-Copolymer-Polypropylene.php

| Physical Properties | Metric | English | Comments |
|-----------------------|-------------|---------------------------|----------|
| Density | 1.05 g/cc | 0.0379 lb/in ³ | ISO 1183 |
| Linear Mold Shrinkage | 0.011 cm/cm | 0.011 in/in | |
| Ash | 20 % | 20 % | ISO 3451 |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|------------------------|----------------------------|-----------|
| Hardness, Shore A | 68 | 68 | ISO 868 |
| Tensile Strength at Break | 24.0 MPa | 3480 psi | ISO 527-2 |
| Tensile Strength, Yield | 27.0 MPa | 3920 psi | ISO 527-2 |
| Elongation at Break | 2.9 % | 2.9 % | ISO 527-2 |
| Elongation at Yield | 3.0 % | 3.0 % | ISO 527-2 |
| Modulus of Elasticity | 1.95 GPa | 283 ksi | ISO 527-2 |
| Izod Impact, Notched (ISO) | 16.0 kJ/m ² | 7.61 ft-lb/in ² | ISO 180 |

| Thermal Properties | Metric | English | Comments |
|-----------------------------|--------|---------|----------|
| Melting Point | 165 °C | 329 °F | |
| Vicat Softening Point | 150 °C | 302 °F | ISO 306 |
| Heat Distortion Temperature | 130 °C | 266 °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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