

## MTI ThermoStran<sup>®</sup> PP-30C Long Carbon Fiber Compound

Category : Polymer , Thermoplastic , Polypropylene (PP)

### Material Notes:

ThermoStran<sup>®</sup> is custom designed long fiber thermoplastic compound (LFC) engineered to meet specific end use requirements. Continuous fibers are pultruded to yield pellets with fibers equivalent to the pellet length. Fiber / pellet length = 0.5 inches. Property values are estimated. Processing information: Mold Temperature: Higher mold temperatures are recommended for smoother surface appearance. Nozzle: Shortest length possible and 0.25 inch diameter or larger is recommended. Gates: Gates should be as large as possible and located to eliminate knit line and advantageously align fiber. Runners: Full round runners with 0.25 inch diameter and no sharp corners. Construction Material: Tool steels can be heat treated and polished to increase hardness and wear resistance. A-2 and D-2 steels can be hardened to Rockwell 60 C scale for longer life. Plating: Electroless nickel plating may offer additional wear protection. Information provided by MTI Thermoplastic Composites, Division of Montsinger Technologies, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_MTI-ThermoStran-PP-30C-Long-Carbon-Fiber-Compound.php](http://www.lookpolymers.com/polymer_MTI-ThermoStran-PP-30C-Long-Carbon-Fiber-Compound.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.06 g/cc	1.06 g/cc	
Filler Content	30 %	30 %	Long Carbon Fiber

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	138 MPa	20000 psi	
Tensile Modulus	20.7 GPa	3000 ksi	
Flexural Strength	207 MPa	30000 psi	
Flexural Modulus	16.5 GPa	2400 ksi	
Izod Impact, Notched	1.01 J/cm	1.90 ft-lb/in	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	227 Å°C	440 Å°F	
Middle Barrel Temperature	238 Å°C	460 Å°F	
Front Barrel Temperature	249 Å°C	480 Å°F	
Nozzle Temperature	249 Å°C	480 Å°F	
Melt Temperature	249 - 260 Å°C	480 - 500 Å°F	
Mold Temperature	65.6 Å°C	150 Å°F	
Injection Pressure	68.9 MPa	10000 psi	

Processing Properties	Metric <small>75 rpm</small>	English <small>75 rpm</small>	Comments
Descriptive Properties		Value	Comments
Nozzle ID		0.25 Inches	
Screw Design		20:1 L/D	

## Contact Songhan Plastic Technology Co.,Ltd.

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