# HiFill® PPSU E-I Tecason PMT 3010 YL165

**Techmer Polymer Modifiers - *Polyphenylsulfone***

## General Information

| General | |
|---|---|
| Material Status | • Commercial: Active |
| Availability | • North America |
| Appearance | • Yellow |
| Processing Method | • Injection Molding |

## Properties [1]

| Physical | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Density / Specific Gravity | 1.29 | | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (365°C/5.0 kg) | 23 | g/10 min | ASTM D1238 |
| **Mechanical** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Modulus | 333000 | psi | ASTM D638 |
| Tensile Strength (Yield) | 11000 | psi | ASTM D638 |
| Tensile Strength (Break) | 9600 | psi | ASTM D638 |
| Tensile Elongation (Break) | 83 | % | ASTM D638 |
| **Impact** | **Nominal Value** | **Unit** | **Test Method** |
| Notched Izod Impact (0.125 in) | 11 | ft·lb/in | ASTM D256 |

## Processing Information

| Injection | Nominal Value | Unit |
|---|---|---|
| Drying Temperature | 300 | °F |
| Drying Time | 3.0 to 4.0 | hr |
| Rear Temperature | 660 to 690 | °F |
| Middle Temperature | 670 to 700 | °F |
| Front Temperature | 680 to 710 | °F |
| Nozzle Temperature | 690 to 725 | °F |
| Processing (Melt) Temp | 670 to 730 | °F |
| Mold Temperature | 300 to 350 | °F |
| Injection Rate | Slow-Moderate | |
| Back Pressure | 0.00 to 50.0 | psi |
| Screw Speed | Moderate | |