# TES J-50/30/RG

**Techmer Polymer Modifiers - *Polycarbonate***

## General Information

**Product Description**

Molding Parameters:
4 hours recommended for high tensile strength and smooth surface finish, or for vacuum metalizing.
The dry temperature at 16 hours is 180°F.
For 2-zone machines, the rear temperature is 600-650°F, and the front temperature is 580-620°F.

| General | | | |
|---|---|---|---|
| Material Status | • Commercial: Active | | |
| Availability | • Africa & Middle East<br>• Asia Pacific | • Europe<br>• Latin America | • North America |
| Filler / Reinforcement | • Glass Fiber, 30% Filler by Weight | | |
| Features | • Good Flow | | |
| RoHS Compliance | • RoHS Compliant | | |
| Forms | • Pellets | | |
| Processing Method | • Injection Molding | | |

## Properties [1]

| Physical | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Density / Specific Gravity | 1.41 | | ASTM D792 |
| Molding Shrinkage - Flow | | | ASTM D955 |
| 0.125 in | 1.0E-3 | in/in | |
| 0.250 in | 3.0E-3 | in/in | |
| **Mechanical** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Strength (Break, 73°F) | 17000 | psi | ASTM D638 |
| Flexural Modulus (73°F) | 950000 | psi | ASTM D790 |
| Flexural Strength (Break, 73°F) | 20500 | psi | ASTM D790 |
| **Impact** | **Nominal Value** | **Unit** | **Test Method** |
| Notched Izod Impact (73°F, 0.125 in) | 2.5 | ft·lb/in | ASTM D256 |
| **Thermal** | **Nominal Value** | **Unit** | **Test Method** |
| Deflection Temperature Under Load (264 psi, Unannealed) | 284 | °F | ASTM D648 |

## Processing Information

| Injection | Nominal Value | Unit |
|---|---|---|
| Drying Temperature | 250 | °F |
| Drying Time | 2.0 to 4.0 | hr |
| Rear Temperature | 570 to 600 | °F |
| Middle Temperature | 590 to 650 | °F |
| Front Temperature | 600 to 630 | °F |
| Nozzle Temperature | 590 to 630 | °F |
| Processing (Melt) Temp | 580 to 625 | °F |
| Mold Temperature | 160 to 190 | °F |

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