

## HiFill® POM CO 0241 S

Techmer Polymer Modifiers - Acetal (POM) Copolymer

### General Information

#### General

|                        |                      |
|------------------------|----------------------|
| Material Status        | • Commercial: Active |
| Availability           | • North America      |
| Filler / Reinforcement | • Metal              |
| Features               | • Copolymer          |
| Appearance             | • Colors Available   |
| Forms                  | • Pellets            |
| Processing Method      | • Injection Molding  |

### Properties <sup>1</sup>

| Physical                                                | Nominal Value | Unit     | Test Method |
|---------------------------------------------------------|---------------|----------|-------------|
| Density / Specific Gravity                              | 2.41          |          | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)               | 7.0           | g/10 min | ASTM D1238  |
| Molding Shrinkage - Flow (0.125 in)                     | 0.016         | in/in    | ASTM D955   |
| Water Absorption (24 hr)                                | 0.20          | %        | ASTM D570   |
| Mechanical                                              | Nominal Value | Unit     | Test Method |
| Tensile Strength (Yield)                                | 7000          | psi      | ASTM D638   |
| Tensile Elongation (Yield)                              | 40            | %        | ASTM D638   |
| Flexural Modulus                                        | 470000        | psi      | ASTM D790   |
| Flexural Strength                                       | 11500         | psi      | ASTM D790   |
| Impact                                                  | Nominal Value | Unit     | Test Method |
| Notched Izod Impact (73°F, 0.125 in)                    | 1.1           | ft-lb/in | ASTM D256   |
| Hardness                                                | Nominal Value | Unit     | Test Method |
| Rockwell Hardness (R-Scale)                             | 100           |          | ASTM D785   |
| Thermal                                                 | Nominal Value | Unit     | Test Method |
| Deflection Temperature Under Load (66 psi, Unannealed)  | 320           | °F       | ASTM D648   |
| Deflection Temperature Under Load (264 psi, Unannealed) | 230           | °F       | ASTM D648   |
| CLTE - Flow                                             | 1.2E-5        | in/in/°F | ASTM D696   |
| Electrical                                              | Nominal Value | Unit     | Test Method |
| Volume Resistivity                                      | 1.0E+14       | ohms·cm  | ASTM D257   |

### Processing Information

| Injection              | Nominal Value | Unit |
|------------------------|---------------|------|
| Drying Temperature     | 160           | °F   |
| Drying Time            | 1.0           | hr   |
| Rear Temperature       | 350 to 380    | °F   |
| Middle Temperature     | 370 to 410    | °F   |
| Front Temperature      | 360 to 390    | °F   |
| Nozzle Temperature     | 350 to 400    | °F   |
| Processing (Melt) Temp | 380 to 420    | °F   |
| Mold Temperature       | 180 to 250    | °F   |

