# PolySource

## Electrafil® POM CO AS
### Techmer Polymer Modifiers - *Acetal (POM) Copolymer*

## General Information

### General

| | |
|---|---|
| Material Status | • Commercial: Active |
| Availability | • North America |
| Additive | • Antistatic |
| Features | • Antistatic • Conductive |
| Appearance | • Colors Available |
| Forms | • Pellets |
| Processing Method | • Injection Molding |

## Properties [1]

| Physical | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Density / Specific Gravity | 1.38 | | ASTM D792 |
| Molding Shrinkage - Flow (0.125 in) | 0.018 | in/in | ASTM D955 |
| Water Absorption (24 hr) | 0.30 | % | ASTM D570 |
| **Mechanical** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Strength (Yield) | 8000 | psi | ASTM D638 |
| Tensile Elongation (Break) | 30 | % | ASTM D638 |
| Flexural Modulus | 200000 | psi | ASTM D790 |
| Flexural Strength | 11000 | psi | ASTM D790 |
| **Impact** | **Nominal Value** | **Unit** | **Test Method** |
| Notched Izod Impact (73°F, 0.125 in) | 1.2 | 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 (264 psi, Unannealed) | 210 | °F | ASTM D648 |
| CLTE - Flow | 4.0E-5 | in/in/°F | ASTM D696 |
| **Electrical** | **Nominal Value** | **Unit** | **Test Method** |
| Surface Resistivity | 1.0E+6 to 1.0E+8 | ohms | ASTM D257 |
| Volume Resistivity | 1.0E+7 to 1.0E+9 | ohms·cm | ASTM D257 |
| **Flammability** | **Nominal Value** | **Unit** | **Test Method** |
| Flame Rating (0.06 in) | HB | | UL 94 |
| **Additional Information** | **Nominal Value** | **Unit** | **Test Method** |
| TPCI # | 6000114 | | |

## Processing Information

| Injection | Nominal Value | Unit |
|---|---|---|
| Drying Temperature | 180 | °F |
| Drying Time | 1.0 to 2.0 | hr |
| Suggested Max Moisture | 0.20 | % |
| Rear Temperature | 350 to 370 | °F |
| Middle Temperature | 370 to 390 | °F |
| Front Temperature | 360 to 380 | °F |
| Nozzle Temperature | 350 to 370 | °F |
| Processing (Melt) Temp | 370 to 400 | °F |
| Mold Temperature | 170 to 200 | °F |
| Injection Rate | Moderate-Fast | |
| Back Pressure | 50.0 to 100 | psi |

**Injection Notes**

Screw Speed: Medium
Recommendations for Molding and Tool Conditions: Well vented
Moisture Content, as received: Product is packaged at 0.2% or less.
Drying not normally required. Dry at 180°F for 1 to 2 hours if necessary.

## Notes

[1] Typical properties: these are not to be construed as specifications.