

## Techmer ES HiFill® POM CO 0374 S Acetal

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Copolymer, Steel Filled

### Material Notes:

Availability: North AmericaForms: PelletsFiller/Reinforcement: MetalFeatures: CopolymerInformation provided by TP Composites, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Techmer-ES-HiFill-POM-CO-0374-S-Acetal.php](http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-POM-CO-0374-S-Acetal.php)

| Physical Properties         | Metric                               | English                              | Comments   |
|-----------------------------|--------------------------------------|--------------------------------------|------------|
| Density                     | 3.74 g/cc                            | 0.135 lb/in <sup>3</sup>             | ASTM D792  |
| Water Absorption            | 0.20 %                               | 0.20 %                               | ASTM D570  |
|                             | @Time 86400 sec                      | @Time 24.0 hour                      |            |
| Linear Mold Shrinkage, Flow | 0.016 cm/cm                          | 0.016 in/in                          | ASTM D955  |
|                             | @Thickness 3.17 mm                   | @Thickness 0.125 in                  |            |
| Melt Flow                   | 5.0 g/10 min                         | 5.0 g/10 min                         | ASTM D1238 |
|                             | @Load 2.16 kg,<br>Temperature 190 °C | @Load 4.76 lb,<br>Temperature 374 °F |            |

| Mechanical Properties   | Metric             | English             | Comments  |
|-------------------------|--------------------|---------------------|-----------|
| Hardness, Rockwell R    | 100                | 100                 | ASTM D785 |
| Tensile Strength, Yield | 41.4 MPa           | 6000 psi            | ASTM D638 |
| Elongation at Break     | 40 %               | 40 %                | ASTM D638 |
| Flexural Strength       | 72.4 MPa           | 10500 psi           | ASTM D790 |
| Flexural Modulus        | 3.45 GPa           | 500 ksi             | ASTM D790 |
| Izod Impact, Notched    | 0.587 J/cm         | 1.10 ft-lb/in       | ASTM D256 |
|                         | @Thickness 3.17 mm | @Thickness 0.125 in |           |

| Thermal Properties                          | Metric       | English        | Comments              |
|---------------------------------------------|--------------|----------------|-----------------------|
| CTE, linear, Parallel to Flow               | 21.6 µm/m-°C | 12.0 µin/in-°F | ASTM D696             |
| Deflection Temperature at 0.46 MPa (66 psi) | 160 °C       | 320 °F         | Unannealed; ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 110 °C       | 230 °F         | Unannealed; ASTM D648 |

| Electrical Properties | Metric | English | Comments |
|-----------------------|--------|---------|----------|
|-----------------------|--------|---------|----------|

|                       |                 |                 |           |
|-----------------------|-----------------|-----------------|-----------|
| Volume Resistivity    | 1.00e+14 ohm-cm | 1.00e+14 ohm-cm | ASTM D257 |
| Electrical Properties | Metric          | English         | Comments  |

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