

## Polyplastics Duracon® M90-48 Acetal Co-polymer (POM), Antistatic, General

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Copolymer, Unreinforced

### Material Notes:

DURACON® is a crystalline thermoplastic acetal copolymer. The primary raw material trioxane, a trimer of formaldehyde. The thermoplastic adopts a copolymer structure in which polyoxymethylene (-C-O) and carbon-carbon (-C-C- bond) comonomer groups are incorporated into its main chain. Therefore the copolymer has superior chemical and thermal stability, compared with acetal homopolymer. Acetal co-polymer is well-balanced in terms of mechanical, chemical and thermal properties, and its superior moldability allows it to be widely employed in various industrial fields. Information provided by PolyPlastics.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Polyplastics-Duracon-M90-48-Acetal-Co-polymer-POM-Antistatic-General.php](http://www.lookpolymers.com/polymer_Polyplastics-Duracon-M90-48-Acetal-Co-polymer-POM-Antistatic-General.php)

| Physical Properties | Metric    | English                   | Comments |
|---------------------|-----------|---------------------------|----------|
| Density             | 1.40 g/cc | 0.0506 lb/in <sup>3</sup> | ISO 1183 |

| Mechanical Properties      | Metric                  | English                    | Comments     |
|----------------------------|-------------------------|----------------------------|--------------|
| Tensile Strength, Ultimate | 62.0 MPa                | 8990 psi                   | ISO 527-1, 2 |
| Elongation at Break        | 35 %                    | 35 %                       | ISO 527-1, 2 |
| Tensile Modulus            | 2.70 GPa                | 392 ksi                    | ISO 527-1, 2 |
| Flexural Strength          | 85.0 MPa                | 12300 psi                  | ISO 178      |
| Flexural Modulus           | 2.45 GPa                | 355 ksi                    | ISO 178      |
| Charpy Impact, Notched     | 0.600 J/cm <sup>2</sup> | 2.86 ft-lb/in <sup>2</sup> | ISO 179/1eA  |

| Thermal Properties                          | Metric                      | English                    | Comments    |
|---|-----------------------------|----------------------------|-------------|
| CTE, linear                                 | 120 µm/m-°C                 | 66.7 µin/in-°F             | ISO 11359-2 |
|   | @Temperature 23.0 - 55.0 °C | @Temperature 73.4 - 131 °F |             |
| CTE, linear, Transverse to Flow             | 120 µm/m-°C                 | 66.7 µin/in-°F             | ISO 11359-2 |
|   | @Temperature 23.0 - 55.0 °C | @Temperature 73.4 - 131 °F |             |
| Deflection Temperature at 1.8 MPa (264 psi) | 95.0 °C                     | 203 °F                     | ISO 75-1, 2 |
| Flammability, UL94                          | HB                          | HB                         |             |

| Electrical Properties | Metric          | English         | Comments  |
|-----------------------|-----------------|-----------------|-----------|
| Volume Resistivity    | 1.00e+13 ohm-cm | 1.00e+13 ohm-cm | IEC 60093 |

| Surface Resistance<br>Electrical Properties | 1.00e+13 ohm<br>Metric | 1.00e+13 ohm<br>English | ISO 60002<br>Comments |
|---|------------------------|-------------------------|-----------------------|
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## Contact Songhan Plastic Technology Co.,Ltd.

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