

Polyplastics Duracon® M270-44/M270S Acetal Co-polymer (POM), Standard, High flow, High cycle

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-M270-44M270S-Acetal-Co-polymer-POM-Standard-High-flow-High-cycle.php

| Physical Properties | Metric | English | Comments |
|---------------------|-----------|---------------------------|----------|
| Density | 1.41 g/cc | 0.0509 lb/in ³ | ISO 1183 |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|-------------------------|----------------------------|--------------|
| Tensile Strength, Ultimate | 63.0 MPa | 9140 psi | ISO 527-1, 2 |
| Elongation at Break | 30 % | 30 % | ISO 527-1, 2 |
| Tensile Modulus | 2.80 GPa | 406 ksi | ISO 527-1, 2 |
| Flexural Strength | 88.0 MPa | 12800 psi | ISO 178 |
| Flexural Modulus | 2.55 GPa | 370 ksi | ISO 178 |
| Charpy Impact, Notched | 0.530 J/cm ² | 2.52 ft-lb/in ² | ISO 179/1eA |

| Thermal Properties | Metric | English | Comments |
|---|-----------------------------|----------------------------|-------------|
| CTE, linear | 110 µm/m-°C | 61.1 µin/in-°F | ISO 11359-2 |
| | @Temperature 23.0 - 55.0 °C | @Temperature 73.4 - 131 °F | |
| CTE, linear, Transverse to Flow | 110 µm/m-°C | 61.1 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) | 100 °C | 212 °F | ISO 75-1, 2 |
| Flammability, UL94 | HB | HB | |

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

| Electrical Properties | Metric | English | Comments |
|-----------------------|--------------|--------------|-------------|
| Surface Resistance | 1.00e+16 ohm | 1.00e+16 ohm | IEC 60093 |
| Dielectric Strength | 19.0 kV/mm | 483 kV/in | IEC 60243-1 |

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