

UNITAL® SFX-0102M

Acetal (POM) Homopolymer

Nytec Plastics, Ltd.

Message:

UNITAL SFX-0102M extruded thermoplastic shapes provide users with the strength and dimensional stability inherent in POM-based resins as well as enhanced stiffness provided by the addition of a metallic filler. UNITAL SFX-0102M shapes offer low extractables for applications requiring FDA compliance and are especially well suited for metal detection in food processing applications.

UNITAL SFX-0102M is available in multiple rod and plate configurations by special order. Minimums order quantities may apply due to the highly specialized nature of product applications, dependent on configuration.

| General Information | |
|------------------------|----------------------------|
| Filler / Reinforcement | Metallic |
| Features | Food Contact Acceptable |
| | Good Dimensional Stability |
| | High Stiffness |
| | High Strength |
| | Low Extractables |
| | Metal Detectable |
| Uses | Food Service Applications |
| Agency Ratings | FDA Unspecified Rating |
| Appearance | Blue |
| Forms | Preformed Parts |
| | Rod |

| Physical | Nominal Value | Unit | Test Method |
|---|---------------|-------------------|-------------|
| Specific Gravity | 1.68 | g/cm ³ | ASTM D792 |
| Water Absorption (24 hr) | < 0.20 | % | ASTM D570 |
| Hardness | Nominal Value | Unit | Test Method |
| Rockwell Hardness (R-Scale) | 100 | | ASTM D785 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus | 2550 | MPa | ASTM D638 |
| Tensile Strength (Yield) | 48.3 | MPa | ASTM D638 |
| Tensile Elongation (Break) | 5.0 to 10 | % | ASTM D638 |
| Flexural Modulus | 3170 | MPa | ASTM D790 |
| Flexural Strength | 68.9 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact | 75 | J/m | ASTM D256 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 116 | °C | ASTM D648 |
| Glass Transition Temperature | 160 | °C | ASTM D3418 |

| | | | |
|-------------|--------|----------|-----------|
| CLTE - Flow | 2.2E-4 | cm/cm/°C | ASTM D696 |
| RTI Str | 60.0 | °C | UL 746 |

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