# STERalloy™ FDG 2871

Thermoplastic

Hapco Inc.

## Message:

STERalloy FDG is the first Liquid Molding Polymer Alloy Series that has been specifically designed for food and drug applications. All of products in the STERalloy FDG Series exhibit unique physical and chemical properties and have been used in numerous applications where biocompatibility is required.
Key Advantages:
Approvable Materials
Wide range of hardnesses
ROHS compliant
Very high physical properties
Low moisture sensitivity
Easy to use
The food, drug, pharmaceutical, wine, beer, juice, dairy, hospital equipment, and prosthetic industries are just some examples of applications that utilize special products such as STERalloy FDG.
STERalloy FDG Elastomeric Series:
various hardness elastomers, shore 20A - 72D
clear in color
available in 2 speeds - fast and slow
STERalloy FDG Rigid Series:
rigid, tough polymer alloy plastics
high heat distortion
high physical properties

| General Information | | | |
|---|---|---|---|
| Features | Food Contact Acceptable<br>Good Processability | | |
| Uses | Filtration Media<br>Food Containers<br>Medical/Healthcare Applications<br>Non-specific Food Applications<br>Pharmaceuticals<br>Prosthetics | | |
| RoHS Compliance | RoHS Compliant | | |
| Appearance | Clear/Transparent | | |
| Forms | Liquid | | |
| **Physical** | **Nominal Value** | **Unit** | **Test Method** |
| Specific Gravity | 1.03 | g/cm³ | ASTM D4669 |
| Molding Shrinkage - Flow | 0.10 to 0.30 | % | ASTM D2566 |
| Weight - per cubic inch | 17 | g | |
| Gel Time [1] (25°C) | 20.0 | min | ASTM D2971 |
| **Hardness** | **Nominal Value** | **Unit** | **Test Method** |
| Durometer Hardness (Shore D) | 72 | | ASTM D2240 |
| **Mechanical** | **Nominal Value** | **Unit** | **Test Method** |

| | | | |
|---|---|---|---|
| Tensile Modulus | 41.4 | MPa | ASTM D638 |
| Tensile Strength | 25.5 | MPa | ASTM D638 |
| Tensile Elongation (Break) | 65 | % | ASTM D638 |
| Flexural Modulus | 95.8 | MPa | ASTM D790 |
| Flexural Strength | 16.2 | MPa | ASTM D790 |
| Elastomers | Nominal Value | Unit | Test Method |
| Tear Strength [2] | 109 | kN/m | ASTM D624 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact | 80 | J/m | ASTM D256 |
| Unnotched Izod Impact | 340 | J/m | ASTM D256 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load | | | ASTM D648 |
| 0.45 MPa, Unannealed | 50.0 | °C | |
| 1.8 MPa, Unannealed | 44.0 | °C | |
| Thermoset | Nominal Value | Unit | Test Method |
| Thermoset Components | | | |
| Part A | Mix Ratio by Weight: 100, Mix Ratio by Volume: 100 | | |
| Part B | Mix Ratio by Weight: 32, Mix Ratio by Volume: 32 | | |
| Thermoset Mix Viscosity (25°C) | 4300 | cP | ASTM D4878 |
| Demold Time (21°C) | 60 to 180 | min | Internal Method |
| NOTE | | | |
| 1. | 100 g | | |
| 2. | Die C | | |

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