STERalloy™ FDG 2463

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 the 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 Good Processability High Rigidity
Uses	Filtration Media Food Containers Medical/Healthcare Applications Non-specific Food Applications Pharmaceuticals Prosthetics
RoHS Compliance	RoHS Compliant
Appearance	Clear/Transparent
Forms	Liquid

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.11	g/cm³	ASTM D4669
Molding Shrinkage - Flow	0.050 to 0.20	%	ASTM D2566
Weight - per cubic inch	18	g	
Gel Time [1] (25°C)	20.0	min	ASTM D2971

Hardness	Nominal Value	Unit	Test Method

Durometer Hardness (Shore D)	77 to 83		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2550	MPa	ASTM D638
Tensile Strength	51.7	MPa	ASTM D638
Tensile Elongation (Break)	6.0	%	ASTM D638
Flexural Modulus	1370	MPa	ASTM D790
Flexural Strength	71.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	11	J/m	ASTM D256
Unnotched Izod Impact	51	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	98.0	°C	
1.8 MPa, Unannealed	94.0	°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: 25, Mix Ratio by Volume: 25		
Thermoset Mix Viscosity (25°C)	5700 to 7700	cP	ASTM D4878
Demold Time			Internal Method
21°C	360 to 720	min	
50°C	120 to 240	min	
NOTE			
1.	100 g		

Recommended distributors for this material

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