STERalloy™ FDG 2456

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	1.10	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)	25.0	min	ASTM D2971
Hardness	**Nominal Value**	**Unit**	**Test Method**

Durometer Hardness (Shore D)	76		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	993	MPa	ASTM D638
Tensile Strength	24.1	MPa	ASTM D638
Tensile Elongation (Break)	24	%	ASTM D638
Flexural Modulus	607	MPa	ASTM D790
Flexural Strength	29.6	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	16	J/m	ASTM D256
Unnotched Izod Impact	96	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	64.0	°C	
1.8 MPa, Unannealed	52.0	°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: 20, Mix Ratio by Volume: 20		
Thermoset Mix Viscosity (25°C)	7500 to 10500	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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