

STERalloy™ FDG 2501

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/cm ³	ASTM D4669
Molding Shrinkage - Flow	0.050 to 0.20	%	ASTM D2566
Weight - per cubic inch	18	g	
Gel Time ¹ (25°C)	32.0	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	179	MPa	ASTM D638
Tensile Strength	33.8	MPa	ASTM D638
Tensile Elongation (Break)	16	%	ASTM D638
Flexural Modulus	917	MPa	ASTM D790
Flexural Strength	49.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	20	J/m	ASTM D256
Unnotched Izod Impact	110	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	94.0	°C	
1.8 MPa, Unannealed	80.0	°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: 22, Mix Ratio by Volume: 25		
Thermoset Mix Viscosity (25°C)	25000 to 35000	cP	ASTM D4878
Demold Time			Internal Method
21°C	360 to 720	min	
50°C	120 to 240	min	
NOTE			
1.	100 g		

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