

STERalloy™ FDG 2781

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		
	Good Processability		
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	1.01	g/cm ³	ASTM D4669
Molding Shrinkage - Flow	0.050 to 0.20	%	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 A)	80		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method

Tensile Strength	14.8	MPa	ASTM D638
Tensile Elongation (Break)	520	%	ASTM D638
Elastomers	Nominal Value	Unit	Test Method
Tear Strength ²	45.5	kN/m	ASTM D624
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	No Break		ASTM D256
Unnotched Izod Impact	No Break		ASTM D256
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)	3000	cP	ASTM D4878
Demold Time (21°C)	300 to 480	min	Internal Method
NOTE			
1.	100 g		
2.	Die C		

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