



STERALLOYTM



- BIOCOMPATIBLE EPOXY PLASTICS -

SteralloyTM is the first polymer series from Hapco that has been specifically designed for applications where biocompatibility is required. All of the **SteralloyTM R-Series** exhibit unique physical properties and have passed ISO 10993-5 testing.*

KEY ADVANTAGES:

- Passes ISO 10993-5*
- High Physical Properties
- RoHS Compliant
- Easily Pigmented



WHERE IS STERALLOYTM USED?



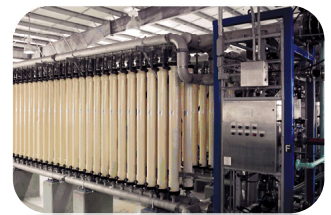
MEDICAL



PROTOTYPING



FOOD CONTACT



FILTRATION

For info and pricing, please contact us at:

Tel: 01179 715500 Email: sales@europoluk.com

*Hapco's Steralloy formulations have been successfully used to manufacture products that have passed various levels of biocompatibility testing, however, the responsibility for testing cured parts to verify suitability for any application lies with the customer and/or end user. Hapco makes no warranty, expressed or implied, of fitness for a particular use.

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PROPERTIES	TEST METHOD	2380	2398	2456	2463	2501	
PHYSICAL PROPERTIES	Mix Ratio by volume A:B	Calculation	100:20	100:15	100:20	100:25	100:25
	by weight A:B		100:18	100:15	100:20	100:25	100:22
	Gel time 100 grams @ 25°C	ASTM D-2971	27 min.	25 min.	25 min.	20 min.	32 min.
	Color (cured)	Visual	clear / slight haze	clear / slight haze	clear / cloudy	clear / cloudy	clear / cloudy
	Hardness Shore Scale	ASTM D-2240	85 D	77 D	76 D	80 D ± 3	80 D ± 3
	Viscosity mixed @ 25°C cps	ASTM D-4878	7,500 ±500	8,500 ±1,500	9,000 ±1,500	6,700 ±1,000	30,000 ±5,000
	Specific Gravity mixed @ 25°C	ASTM D-4669	1.10	1.09	1.10	1.11	1.10
	Shrinkage inch/inch See shrinkage paragraph	ASTM D-2566	.0005-.002	.0005-.002	.0005-.002	.0005-.002	.0005-.002
	Demold time @ 70°F 1/8" thick (For faster demold times contact Hapco)	HAPCO TEST	6-12 hrs. or 2-4 hrs. @ 50°C	6-12 hrs. or 2-4 hrs. @ 50°C	6-12 hrs. or 2-4 hrs. @ 50°C	6-12 hrs. or 2-4 hrs. @ 50°C	6-12 hrs. or 2-4 hrs. @ 50°C
	Weight per cubic inch (lbs.)	Calculation	0.0397	0.0394	0.0397	0.0402	0.0397
PRODUCT PROPERTIES	Tensile Strength psi	ASTM D-638	8,000	4,000	3,500	7,500	4,900
	Izod Impact (Ft.lbs/inch) notched unnotched	ASTM D-256	0.23 1.60	0.22 1.40	0.30 1.80	0.20 0.95	0.38 2.10
	Heat Distortion Temperature (°C) 66 psi 264 psi	ASTM D-648	98°C 94°C	88°C 64°C	64°C 52°C	98°C 93°C	94°C 80°C
	Flexural Strength psi	ASTM D-790	10,500	4,850	4,300	10,300	7,100

NOTE: All testing was performed on samples that were post cured at 80°C. Post curing these materials is necessary to achieve ultimate properties. We recommend curing at room temperature (21-23°C) and post-curing at 60-80°C for 8-16 hours. The use of a vacuum or pressure chamber are strongly recommended. Before use, reference material handling, processing, and safety notes located on our website at:

www.hapcoincorporated.com/steralloy