

# Filter-bond™ R-36

Thermoset, Unspecified

Hapco Inc.

## Message:

Filter-bond is a series of casting and potting compounds ideally suited for medical and food contact applications. This Filter-bond R-SERIES is manufactured to ultra-high quality standards and has been used by customers to pass biocompatibility requirements. FILTER-bond R-36 can be used in ratios from 2:1 to 1:1, by volume or by weight, making it an ideal product for both field and production applications. FILTER-bond R-36 is the "workhorse" of our polymer adhesive line and will bond most metals, plastics, ceramics, wood, fabrics, canvas, etc. As you increase the mix from 2:1 to 1:1, the cured product becomes semi-rigid and has lower heat resistance.

General Information			
Features	Bondability		
	Food Contact Acceptable		
	Good Adhesion		
	Medium Rigidity		
Uses	Bonding		
	Filtration Media		
	Medical/Healthcare Applications		
	Non-specific Food Applications		
	Sealants		
Appearance	Clear Amber		
Forms	Liquid		
Processing Method	Casting		
	Encapsulating		
	Potting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.10	g/cm <sup>3</sup>	ASTM D4669
Molding Shrinkage - Flow	0.050 to 0.20	%	ASTM D2566
Weight - per cubic inch	18	g	
	62		
Heat Deflection Temperature	75	°C	ASTM D648
Gel Time <sup>1</sup> (25°C)	2.0	hr	ASTM D2971
Cure Time (21°C)	1.0	day	Internal Method
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	80		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method

Tensile Modulus	2000	MPa	ASTM D638
Tensile Strength (Yield)	56.9	MPa	ASTM D638
Tensile Elongation (Break)	7.5	%	ASTM D638
Flexural Modulus	1760	MPa	ASTM D790
Flexural Strength	94.8	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	24	J/m	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: 50, Mix Ratio by Volume: 46		
Thermoset Mix Viscosity (25°C)	15000 to 23000	cP	ASTM D4878
NOTE			
1.	100 g		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

#### Recommended distributors for this material

### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

