

Filter-bond™ E-3503

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 E-SERIES is manufactured to ultra-high quality standards and has been used by customers to pass biocompatibility requirements.

FILTER-bond E-3503 and E-3505 exhibit excellent bonding characteristics to various substrates, and are tough products with good physical properties. A few of the most common applications for E-3503 and E-3505 are filtration & ultra-filtration potting and sealing.

General Information			
Features	Bondability		
	Food Contact Acceptable		
	Good Toughness		
Uses	Bonding		
	Filters		
	Filtration Media		
	Medical/Healthcare Applications		
	Non-specific Food Applications		
	Sealants		
Appearance	Translucent		
Forms	Liquid		
Processing Method	Casting		
	Encapsulating		
	Potting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.13	g/cm ³	ASTM D4669
Molding Shrinkage - Flow	0.050 to 0.20	%	ASTM D2566
Weight - per cubic inch	19	g	
Gel Time ¹ (25°C)	18.0 to 28.0	min	ASTM D2971
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	65		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	96.5	MPa	ASTM D638
Tensile Strength (Yield)	13.8	MPa	ASTM D638
Tensile Elongation (Break)	120	%	ASTM D638
Flexural Modulus	439	MPa	ASTM D790
Flexural Strength	21.4	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact	No Break		ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	54.0	°C	
1.8 MPa, Unannealed	47.0	°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: 24, Mix Ratio by Volume: 20		
Thermoset Mix Viscosity (25°C)	35000 to 45000	cP	ASTM D4878
Demold Time ² (60°C)	120 to 240	min	
NOTE			
1.	100 g		
2.	plus 12 hrs @ 21°C		

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

