

Filter-bond™ E-3505

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
	Seals
Appearance	Clear/Transparent
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	0.10 to 0.30	%	ASTM D2566
Weight - per cubic inch	19	g	
Gel Time ¹ (25°C)	11.0 to 21.0	min	ASTM D2971
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	90		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	21.4	MPa	ASTM D638
Tensile Strength (Yield)	10.3	MPa	ASTM D638
Tensile Elongation (Break)	200	%	ASTM D638
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	No Break		ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	50.0	°C	ASTM D648
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: 14, Mix Ratio by Volume: 17		
Thermoset Mix Viscosity (25°C)	43000 to 57000	cP	ASTM D4878
Demold Time ² (60°C)	120 to 240	min	
NOTE			
1.	100 g		
2.	plus 12 hrs @ 21°C		

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