

# Di-Pak™ E-4501

Thermoplastic

Hapco Inc.

## Message:

DI-PAK E-4701, E-4951 and E-4501

Easily pourable, thermally conductive, shock resistant potting compounds that are ideally suited for low and high production applications. This series of DI-PAK products reduce rejects by exhibiting extremely low stress on potted components. All three of the above DI-PAK E products are flame retardant and meet UL 94V-0 requirements.

General Information			
Features	Electrically Insulating		
	Fast Cure		
	Flame Retardant		
	Good Flexibility		
	Low to No Water Absorption		
	Low Viscosity		
	Shock Absorbent		
	Thermally Conductive		
Uses	Battery Cases		
	Electrical/Electronic Applications		
	Power Cable Shields		
	Switches		
Appearance	Black		
Forms	Liquid		
Processing Method	Potting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.49	g/cm <sup>3</sup>	ASTM D4669
Molding Shrinkage - Flow	0.10 to 0.30	%	ASTM D2566
Weight - per cubic inch	24	g	
Service Temperature	140	°C	
Gel Time <sup>1</sup> (25°C)	30.0	min	ASTM D2971
Thermal Shock Test	Pass		
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	65		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	172	MPa	ASTM D638
Tensile Strength	14.5	MPa	ASTM D638
Tensile Elongation (Break)	100	%	ASTM D638
Flexural Modulus	283	MPa	ASTM D790

Flexural Strength	18.6	MPa	ASTM D790
Elastomers	Nominal Value	Unit	Test Method
Tear Strength <sup>2</sup>	78.8	kN/m	ASTM D624
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	120	J/m	ASTM D256
Unnotched Izod Impact	No Break		ASTM D256
Thermal	Nominal Value	Unit	Test Method
CLTE - Flow	2.0E-4	cm/cm/°C	ASTM D696
Thermal Conductivity	0.40	W/m/K	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	9.6E+12	ohms·cm	ASTM D257
Dielectric Strength	> 16	kV/mm	ASTM D149
Dielectric Constant			ASTM D150
1 kHz	4.50		
100 kHz	4.20		
Dissipation Factor (25°C, 100 kHz)	0.055		ASTM D150
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: 250, Mix Ratio by Volume: 150		
Thermoset Mix Viscosity (25°C)	7200	cP	ASTM D4878
Demold Time (21°C)	30 to 60	min	
NOTE			
1.	100 g		
2.	Die C		

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