

# Di-Pak™ E-4701

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	1.50	g/cm <sup>3</sup>	ASTM D4669
Molding Shrinkage - Flow	0.050 to 0.15	%	ASTM D2566
Weight - per cubic inch	25	g	
Service Temperature	125	°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 A)	65		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	6.89	MPa	ASTM D638
Tensile Elongation (Break)	150	%	ASTM D638
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	No Break		ASTM D256

Unnotched Izod Impact	No Break		ASTM D256
Thermal	Nominal Value	Unit	Test Method
CLTE - Flow	3.5E-4	cm/cm/°C	ASTM D696
Thermal Conductivity	0.42	W/m/K	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.4E+12	ohms·cm	ASTM D257
Dielectric Strength	> 16	kV/mm	ASTM D149
Dielectric Constant			ASTM D150
1 kHz	4.40		
100 kHz	4.10		
Dissipation Factor (25°C, 100 kHz)	0.073		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)	9200	cP	ASTM D4878
Demold Time (21°C)	180 to 300	min	
NOTE			
1.	100 g		

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