Di-Pak™ E-4501-5

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/cm³	ASTM D4669
Molding Shrinkage - Flow	0.10 to 0.30	%	ASTM D2566
Weight - per cubic inch	24	g	
Service Temperature	140	°C	
Gel Time [1] (25°C)	5.0	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 [2]	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)	10 to 20	min	
NOTE			
1.	100 g		
2.	Die C		

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

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