

Di-Pak™ E-4596

Thermoplastic

Hapco Inc.

Message:

DI-PAK E-4500 SERIES

Flexible, 45, 65 and, 95 shore A hardness, potting and encapsulating systems. Flame retardant (FR), accelerated 3 minute (-3) gel time, and black or unpigmented versions are available.

General Information	
Features	Electrically Insulating
	Fast Cure
	Good Flexibility
	Low Viscosity
	Shock Absorbent
Uses	Battery Cases
	Electrical/Electronic Applications
	Power Cable Shields
	Switches
Appearance	Clear Amber
Forms	Liquid
Processing Method	Encapsulating
	Potting

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.06	g/cm ³	ASTM D4669
Molding Shrinkage - Flow	0.20 to 0.30	%	ASTM D2566
Weight - per cubic inch	17	g	
Service Temperature	90	°C	
Gel Time ¹ (25°C)	45.0	min	ASTM D2971
Thermal Shock Test	Pass		
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	95		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	29.6	MPa	ASTM D638
Tensile Strength	18.6	MPa	ASTM D638
Tensile Elongation (Break)	380	%	ASTM D638
Elastomers	Nominal Value	Unit	Test Method
Tear Strength ²	41.3	kN/m	ASTM D624
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact	No Break		ASTM D256
Thermal	Nominal Value	Unit	
Thermal Conductivity	0.22	W/m/K	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	6.6E+16	ohms·cm	ASTM D257
Dielectric Strength	> 14	kV/mm	ASTM D149
Dielectric Constant			ASTM D150
1 kHz	2.70		
100 kHz	2.60		
Dissipation Factor (25°C, 100 kHz)	0.025		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: 50, Mix Ratio by Volume: 50		
Thermoset Mix Viscosity (25°C)	1850	cP	ASTM D4878
Demold Time (21°C)	300 to 480	min	
NOTE			
1.	100 g		
2.	Die C		

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