

# Di-Pak™ E-4056

Thermoplastic

Hapco Inc.

## Message:

DI-PAK E-4000 SERIES

Flexible, colorless, potting and encapsulating systems. Available in 5 minute (-5), 16 minute, and 20 minute gel times, and in shore hardness's from 20 A to 80 A .

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/Transparent
Forms	Liquid
Processing Method	Encapsulating
	Potting

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.16	g/cm <sup>3</sup>	ASTM D4669
Molding Shrinkage - Flow	0.10 to 0.30	%	ASTM D2566
Weight - per cubic inch	19	g	
Service Temperature	80	°C	
Gel Time <sup>1</sup> (25°C)	16.0	min	ASTM D2971
Thermal Shock Test	Pass		
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	50 to 60		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	4.48	MPa	ASTM D638
Tensile Elongation (Break)	950	%	ASTM D638
Elastomers	Nominal Value	Unit	Test Method
Tear Strength <sup>2</sup>	21.0	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	2.5E+8	ohms·cm	ASTM D257
Dielectric Strength	27	kV/mm	ASTM D149
Dielectric Constant			ASTM D150
1 kHz	4.70		
100 kHz	4.60		
Dissipation Factor (25°C, 100 kHz)	0.026		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: 400, Mix Ratio by Volume: 400		
Thermoset Mix Viscosity (25°C)	4500	cP	ASTM D4878
Demold Time (21°C)	240 to 360	min	
NOTE			
1.	100 g		
2.	Die C		

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