

Di-Pak™ R-4528/40

Thermoplastic

Hapco Inc.

Message:

RIGID
DI-PAK R-4528 Series

A black, flame retardant, thermally conductive, high performance series that can be used in all types of electrical components. Combined with its ability to dissipate heat, DI-PAK R-4528 also provides low linear thermal expansion, low shrinkage, and low exothermic heat while curing. Meets UL requirements.

General Information			
Features	Electrically Insulating		
	Flame Retardant		
	Good Processability		
	Good Toughness		
	High Heat Resistance		
	Low Shrinkage		
	Low Viscosity		
	Thermally Conductive		
Uses	Battery Cases		
	Electrical/Electronic Applications		
	Power Cable Shields		
	Switches		
Appearance	Black		
Forms	Liquid		
Processing Method	Encapsulating		
	Potting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.59	g/cm ³	ASTM D4669
Molding Shrinkage - Flow	0.050 to 0.25	%	ASTM D2566
Weight - per cubic inch	26	g	
Service Temperature	120	°C	
Gel Time ¹ (25°C)	35.0 to 45.0	min	ASTM D2971
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	90		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2960	MPa	ASTM D638
Tensile Strength	36.5	MPa	ASTM D638
Tensile Elongation (Break)	0.14	%	ASTM D638

Flexural Modulus	3060	MPa	ASTM D790
Flexural Strength	42.1	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	29	J/m	ASTM D256
Unnotched Izod Impact	37	J/m	ASTM D256
Thermal	Nominal Value	Unit	
Thermal Conductivity	0.39	W/m/K	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	7.2E+13	ohms·cm	ASTM D257
Dielectric Strength	23	kV/mm	ASTM D149
Dielectric Constant			ASTM D150
1 kHz	4.60		
100 kHz	4.30		
Dissipation Factor (25°C, 100 kHz)	0.015		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: 14, Mix Ratio by Volume: 25		
Thermoset Mix Viscosity (25°C)	4250	cP	ASTM D4878
Demold Time (21°C)	120 to 240	min	
NOTE			
1.	100 g		

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