

Di-Pak™ R-4307FR

Thermoplastic

Hapco Inc.

Message:

RIGID
DI-PAK R-4307

A high performance, long working life potting compound for potting/encapsulating units requiring high physical strength and excellent electricals. DI-PAK R-4307 is a holds its mechanical and electrical properties while under the most severe conditions. This is due to its low water absorption, thermal shock resistance, and retention of strength at elevated temperatures.

General Information			
Features	Electrically Insulating		
	Flame Retardant		
	Good Electrical Properties		
	Good Processability		
	Good Thermal Shock Resistance		
	Good Toughness		
	High Heat Resistance		
	High Strength		
	Low to No Water Absorption		
	Low Viscosity		
Uses	Battery Cases		
	Electrical/Electronic Applications		
	Power Cable Shields		
	Switches		
Appearance	Blue		
Forms	Liquid		
Processing Method	Encapsulating		
	Potting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.62	g/cm ³	ASTM D4669
Molding Shrinkage - Flow	0.10 to 0.35	%	ASTM D2566
Weight - per cubic inch	27	g	
Service Temperature	170	°C	
Gel Time ¹ (25°C)	1.0	day	ASTM D2971
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	86		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method

Tensile Modulus	3450	MPa	ASTM D638
Tensile Strength	99.1	MPa	ASTM D638
Tensile Elongation (Break)	3.0	%	ASTM D638
Flexural Modulus	3860	MPa	ASTM D790
Flexural Strength	118	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	25	J/m	ASTM D256
Unnotched Izod Impact	38	J/m	ASTM D256
Thermal	Nominal Value	Unit	
Thermal Conductivity	0.39	W/m/K	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	5.3E+15	ohms·cm	ASTM D257
Dielectric Strength	17	kV/mm	ASTM D149
Dielectric Constant			ASTM D150
1 kHz	3.90		
100 kHz	3.70		
Dissipation Factor (25°C, 100 kHz)	0.021		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.00 mm)	V-0		UL 94
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: 100, Mix Ratio by Volume: 100		
Thermoset Mix Viscosity (25°C)	18000	cP	ASTM D4878
Demold Time (121°C)	120	min	
NOTE			
1.	100 g		

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