Di-Pak™ R-4200

Thermoplastic

Hapco Inc.

Message:

RIGID
DI-PAK R-4200
A low viscosity, long working life compound designed for potting/encapsulating units requiring high physical strength, and excellent penetration & adhesion to components. DI-PAK R-4200 holds its mechanical & electrical properties while under the most severe conditions, due to its low water absorption, and retention of strength at elevated temperatures.

General Information	
Features	Electrically Insulating
	Good Adhesion
	Good Electrical Properties
	Good Processability
	Good Toughness
	High Heat Resistance
	High Strength
	Low to No Water Absorption
	Low Viscosity
	Puncture Resistant
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	1.12	g/cm³	ASTM D4669
Molding Shrinkage - Flow	0.15 to 0.35	%	ASTM D2566
Weight - per cubic inch	18	g	
Service Temperature	148	°C	
Gel Time [1] (25°C)	8.0 to 24.0	hr	ASTM D2971
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	88		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**

Tensile Modulus	3300	MPa	ASTM D638
Tensile Strength	75.8	MPa	ASTM D638
Tensile Elongation (Break)	5.0	%	ASTM D638
Flexural Modulus	3450	MPa	ASTM D790
Flexural Strength	94.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	33	J/m	ASTM D256
Unnotched Izod Impact	41	J/m	ASTM D256
Thermal	Nominal Value	Unit	
Thermal Conductivity	0.22	W/m/K	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	3.5E+15	ohms·cm	ASTM D257
Dielectric Strength	16	kV/mm	ASTM D149
Dielectric Constant			ASTM D150
1 kHz	3.50		
100 kHz	3.10		
Dissipation Factor (25°C, 100 kHz)	0.019		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: 90, Mix Ratio by Volume: 85		
Thermoset Mix Viscosity (25°C)	1200	cP	ASTM D4878
Demold Time			
79°C	720	min	
121°C	120	min	
NOTE			
1.	100 g		

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