Epic Epoxy R1055/H5083

Epoxy; Epoxide

Epic Resins

Message:

Epic R1055/H5083 is a vacuum grade modified epoxy system designed to achieve penetration of tightly wound electrical coils. The system cures at ambient temperatures thereby affording the user the opportunity to reduce substantial energy costs normally associated with heat curing systems. R1055/H5083 features a good combination of physical and electrical properties that qualify the compound for potting high voltage power supplies. R1055/H5083 is appropriate for devices with hot spot temperatures up to 140C. This system is UL 94 HB recognized at 1.5mm.

General Information					
Features	Good Electrical Properties				
Uses	Electrical/Electronic Applications				
	Electronic Insulation				
RoHS Compliance	RoHS Compliant				
Processing Method	Encapsulating				
	Potting				
Physical	Nominal Value	Unit	Test Method		
Specific Gravity	1.45 to 1.50	g/cm³	ASTM D792		
Hardness	Nominal Value	Unit	Test Method		
Durometer Hardness (Shore D, 25°C)	83 to 87		ASTM D2240		
Thermal	Nominal Value	Unit	Test Method		
Glass Transition Temperature	76.0 to 84.0	°C	ASTM E1356		
CLTE - Flow	4.3E-5 to 4.7E-5	cm/cm/°C	ASTM D696		
Electrical	Nominal Value	Unit	Test Method		
Volume Resistivity	1.9E+15 to 2.1E+15	ohms·cm	ASTM D257		
Dielectric Strength (2.03 mm)	21 to 23	kV/mm	ASTM D149		
Dielectric Constant (100 kHz)	3.61 to 3.99		ASTM D2520		
Dissipation Factor (100 kHz)	0.014 to 0.015		ASTM D150		
Thermoset	Nominal Value	Unit	Test Method		
Thermoset Components					
	Mix Ratio by Volume: 1.0				
Hardener	Mix Ratio by Weight: 18				
	Mix Ratio by Weight: 100				
Resin	Mix Ratio by Volume: 3.3				

Pot Life ¹ (25°C)	180 to 240	min	
Thermoset Mix Viscosity (25°C)	2000 to 3000	сР	ASTM D2393
NOTE			
1.	200 Gram Mass		

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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

