

Hysol® MG33F-0588

Epoxy; Epoxide

Loctite®

Message:

Hysol® MG33F-0588 is a specially formulated product designed for use in high volume molding of tantalum capacitors. MG33F-0588 is designed to give optimum overall performance and features:

- low moisture absorption
- excellent moldability
- fast cycle times - especially for automold equipment
- lasermark capability

General Information			
Features	Low hygroscopicity		
	Laser marking		
	Fast molding cycle		
	Good formability		
Uses	Electrical/Electronic Applications		
Appearance	Gold		
Forms	Powder		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.87	g/cm ³	ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	7580	MPa	ASTM D638
Tensile Strength	100	MPa	ASTM D638
Flexural Modulus	19300	MPa	ASTM D790
Flexural Strength	141	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	170	°C	DSC
CLTE - Flow			ASTM D696
80 to 100°C	2.0E-5	cm/cm/°C	ASTM D696
200 to 240°C	7.0E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value		Test Method
Dielectric Constant			ASTM D150
25°C, 100 Hz	4.30		ASTM D150
25°C, 100 kHz	4.10		ASTM D150
Dissipation Factor			ASTM D150
25°C, 100 Hz	4.0E-3		ASTM D150
25°C, 100 kHz	0.018		ASTM D150
Thermoset	Nominal Value	Unit	
Shelf Life (10°C)	30	wk	
Post Cure Time (150°C)	2.0	hr	

Additional Information

Spiral Flow, STP 10P, 177°C: 27 inHot Plate Gel Time, STP 10S, 177°C: 14 secVolume Resistivity, STP 30H, 100V: 1.25e16 ohm/cmSurface Resistivity, STP 30H, 100V: 1.65e16 ohm/cmWater Extract Data, 20 hr water boil:-Chloride Content: 2 ppm-Sodium Content: 1.5 ppm-Conductivity: 21 µohms-pH: 6.5

Injection	Nominal Value	Unit
Processing (Melt) Temp	145 - 177	°C
Injection Pressure	3.45 - 10.3	MPa

Injection instructions

Curing Time, 1/8 inch seccion, 170°C: 30 to 45 secCuring Time, 1/8 inch seccion, 150°C: 1.0 to 1.5 min

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