

# Epic Urethane S7351

Polyurethane

Epic Resins

Message:

Epic S7351 is a two component, room temperature cure, polybutadiene based polyurethane. S7351 was specifically formulated for potting electronic marine modules (EMM) and is also an excellent candidate for potting electronic control modules (ECM). Due to its low hardness and flexibility, S7351 will not exert stress on delicate surface mounted devices (SMD) on printed circuit boards (PCB) when exposed to extreme thermal cycling typical of marine and automotive electronics applications. S7351 is an excellent alternative to rigid systems that cause failures by not allowing expansion and contraction of delicate components. S7351 provides excellent high temperature properties up to 125C and good chemical resistance.

General Information			
Features	Good Chemical Resistance		
	Good Flexibility		
	Low Hardness		
Uses	Automotive Applications		
	Electrical/Electronic Applications		
	Electronic Insulation		
	Marine Applications		
RoHS Compliance	RoHS Compliant		
Processing Method	Encapsulating		
	Potting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.978 to 0.998	g/cm <sup>3</sup>	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 25°C)	20 to 25		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	< -35.0	°C	ASTM E1356
CLTE - Flow	3.9E-4 to 4.1E-4	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.5E+12 to 2.3E+12	ohms · cm	ASTM D257
Dielectric Strength (2.79 mm)	16 to 17	kV/mm	ASTM D149
Dielectric Constant (100 kHz)	3.70 to 4.10		ASTM D2520
Dissipation Factor (100 kHz)	0.030 to 0.040		ASTM D150
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			

Mix Ratio by Volume: 4.0

Part A

Mix Ratio by Weight: 100

Mix Ratio by Volume: 1.0

Part B

Mix Ratio by Weight: 28

Pot Life <sup>1</sup> (25°C)	8.0 to 14	min	
Thermoset Mix Viscosity (25°C)	700 to 1000	cP	ASTM D2393

#### NOTE

1. 128 Gram Mass

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#### Recommended distributors for this material

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