

# Epic Urethane S7144

Polyurethane

Epic Resins

Message:

Epic S7144 is a two component polyurethane system designed for potting electrical and electronic devices. S7144 is a cost effective potting compound with good hydrolytic stability. S7144 has been designed with a convenient 3:1 by volume mix ratio and has a Shore A hardness of 80.

General Information			
Features	Hydrolytically Stable		
Uses	Electrical/Electronic Applications		
	Electronic Insulation		
RoHS Compliance	RoHS Compliant		
Processing Method	Encapsulating		
	Potting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.01 to 1.06	g/cm <sup>3</sup>	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 25°C)	77 to 83		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-23.0 to -21.0	°C	ASTM E1356
CLTE - Flow	1.9E-4 to 2.1E-4	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.1E+13 to 1.2E+13	ohms · cm	ASTM D257
Dielectric Strength (3.18 mm)	16 to 17	kV/mm	ASTM D149
Dielectric Constant (100 kHz)	3.19 to 3.52		ASTM D2520
Dissipation Factor (100 kHz)	0.042 to 0.046		ASTM D150
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
	Mix Ratio by Volume: 3.0		
Part A	Mix Ratio by Weight: 100		
	Mix Ratio by Volume: 1.0		
Part B	Mix Ratio by Weight: 43		
Pot Life <sup>1</sup> (25°C)	35 to 45	min	
Thermoset Mix Viscosity (25°C)	150 to 250	cP	ASTM D2393

## NOTE

1. 100 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

