

# Epic Urethane S7302

Polyurethane

Epic Resins

Message:

Epic S7302 is a tough urethane material designed for electronic potting applications. The chemistry of S7302 lends itself well for products that are exposed to a wide range of temperatures. S7302 is adequate for applications that are thermal cycled between -40C and 135C with excursions up to 160C. S7302 also features good moisture resistance and good adhesion to various metals and plastics.

General Information			
Features	Good Adhesion		
	Good Toughness		
	Moisture Resistant		
Uses	Electrical/Electronic Applications		
	Electronic Insulation		
RoHS Compliance	RoHS Compliant		
Processing Method	Encapsulating		
	Potting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.36 to 1.39	g/cm <sup>3</sup>	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 25°C)	68 to 72		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-50.0	°C	ASTM E1356
CLTE - Flow	1.8E-4 to 1.9E-4	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	2.4E+12 to 2.8E+12	ohms · cm	ASTM D257
Dielectric Strength (3.18 mm)	14 to 15	kV/mm	ASTM D149
Dielectric Constant (100 kHz)	5.10 to 5.30		ASTM D2520
Dissipation Factor (100 kHz)	0.020 to 0.030		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: 20		
Pot Life <sup>1</sup> (25°C)	45 to 55	min	
Thermoset Mix Viscosity (25°C)	2500 to 3500	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

