

Epic Urethane S7344

Polyurethane

Epic Resins

Message:

Epic S7344 is a two component polybutadiene based polyurethane system designed for electronic potting applications. S7344 features low mixed viscosity, good high temperature stability, and a convenient 1:1 mix ratio by volume. The low hardness of S7344 offers protection for delicate electronic devices subject to thermal cycling and thermal shock.

General Information			
Features	Good Thermal Shock Resistance		
	Good Thermal Stability		
	Low Hardness		
	Low Viscosity		
Uses	Electrical/Electronic Applications		
	Electronic Insulation		
RoHS Compliance	RoHS Compliant		
Processing Method	Encapsulating		
	Potting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.968 to 1.01	g/cm³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 25°C)	38 to 43		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-43.0 to -40.0	°C	ASTM E1356
CLTE - Flow	3.5E-4 to 3.7E-4	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	2.6E+12 to 3.4E+12	ohms·cm	ASTM D257
Dielectric Strength (1.52 mm)	19 to 20	kV/mm	ASTM D149
Dielectric Constant (100 kHz)	3.25 to 3.65		ASTM D2520
Dissipation Factor (100 kHz)	0.033 to 0.034		ASTM D150
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
	Mix Ratio by Volume: 1.0		
Part A	Mix Ratio by Weight: 100		

Mix Ratio by Volume: 1.0

Part B	Mix Ratio by Weight: 110		
Pot Life ¹ (25°C)	15 to 25	min	
Thermoset Mix Viscosity (25°C)	< 1000	cP	ASTM D2393

NOTE

1. 100 Gram Mass

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