

# Epic Urethane S7281

Polyurethane

Epic Resins

Message:

Epic S7281 is a two component aliphatic polyurethane potting compound designed with a fast cure and convenient 1:1 mix ratio by volume. Due to the low hardness and very low glass transition temperature, S7281 allows expansion and contraction of solder joints and delicate electronic components without causing failures from mechanical stresses. This product also excels in high temperature applications, showing very low weight loss at 125C over extended periods of time.

General Information			
Features	Aliphatic		
	Fast Cure		
	High Heat Resistance		
	Low Hardness		
Uses	Electrical/Electronic Applications		
	Electronic Insulation		
RoHS Compliance	RoHS Compliant		
Processing Method	Encapsulating		
	Potting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.938 to 0.968	g/cm <sup>3</sup>	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore OO, 25°C)	38 to 42		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	< -60.0	°C	ASTM E1356
CLTE - Flow	6.7E-4 to 7.3E-4	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	8.5E+10 to 9.3E+10	ohms · cm	ASTM D257
Dielectric Strength	> 12	kV/mm	ASTM D149
Dielectric Constant (100 kHz)	3.44 to 3.80		ASTM D2520
Dissipation Factor (100 kHz)	1.9E-3 to 2.1E-3		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 <sup>1</sup> (25°C)	27 to 35	min	
Thermoset Mix Viscosity (25°C)	1600 to 2000	cP	ASTM D2393

#### NOTE

1. 105 Gram Mass

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#### Recommended distributors for this material

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