

Epic Urethane S7356

Polyurethane

Epic Resins

Message:

Epic S7356 is a two component polyurethane potting compound specifically formulated for automotive sensors, switches, and other electrical devices requiring protection from "under the hood" environments. S7356 has successfully passed automotive thermal shock and thermal cycling evaluations and has also proven itself in a wide range of automotive applications. S7356 features a convenient 1:1 mix ratio by volume and low viscosity making it very accommodating to meter mix / dispense applications. S7356 offers a very fast room temperature gel time in a small mass making it an excellent system for applications requiring small amounts of potting material. The fast gel time also provides the advantage of rapid cycling of parts. The Shore A = 60-65 hardness range allows delicate components to expand and contract when exposed to temperature swings without causing physical stress that can create failures.

General Information			
Features	Fast Gel		
	Good Thermal Shock Resistance		
	Low Viscosity		
Uses	Automotive Applications		
	Automotive Under the Hood		
	Electrical/Electronic Applications		
	Electronic Insulation		
	Switches		
RoHS Compliance	RoHS Compliant		
Processing Method	Encapsulating		
	Potting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04 to 1.06	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 25°C)	60 to 65		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-15.0 to -12.0	°C	ASTM E1356
CLTE - Flow	2.3E-4 to 2.8E-4	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+14 to 4.0E+14	ohms · cm	ASTM D257
Dielectric Strength (2.36 mm)	20 to 22	kV/mm	ASTM D149
Dielectric Constant (100 kHz)	3.10 to 3.50		ASTM D2520
Dissipation Factor (100 kHz)	0.050 to 0.070		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: 120

Pot Life ¹ (25°C)	0.0 to 2.0	min	
Thermoset Mix Viscosity (25°C)	500 to 800	cP	ASTM D2393

NOTE

1. 100 Gram Mass

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