

Epic Urethane S7318

Polyurethane

Epic Resins

Message:

Epic S7318 is a two component urethane potting compound that is designed for use in high voltage ignition coils. S7318 features low hardness, low mixed viscosity and a long pot life at room temperature. Review of the product data sheet for specific processing instructions is recommended.

General Information	
Features	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	0.928 to 0.948	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore OO, 25°C)	65 to 75		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-63.0	°C	ASTM E1356
CLTE - Flow	2.7E-4 to 3.0E-4	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	3.3E+12 to 4.1E+12	ohms · cm	ASTM D257
Dielectric Strength (2.54 mm)	18 to 20	kV/mm	ASTM D149
Dielectric Constant (100 kHz)	3.10 to 3.50		ASTM D2520
Dissipation Factor (100 kHz)	0.020 to 0.025		ASTM D150
Thermoset	Nominal Value	Unit	Test Method

Thermoset Components	
Part A	Mix Ratio by Volume: 8.0
Part A	Mix Ratio by Weight: 100
	Mix Ratio by Volume: 1.0
Part B	Mix Ratio by Weight: 17

Pot Life (100°C)	25 to 33	min	
Thermoset Mix Viscosity (25°C)	< 1000	cP	ASTM D2393

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