

Epic Epoxy R1074/H4030-01

Epoxy; Epoxide

Epic Resins

Message:

Epic R1074/H4030-01 is a premium fire retardant epoxy potting compound that carries a UL yellow card approved to pass UL 94 V-0. With this flame rating R1074/H4030-01 carries a temperature rating of 90C. R1074/H4030-01 is currently being used in applications that are thermal cycled between -40C and 85C without issue. R1074/H4030-01 also features a long work life and convenient 1:1 mix ratio.

General Information			
Features	Flame Retardant		
Uses	Electrical/Electronic Applications		
	Electronic Insulation		
Processing Method	Encapsulating		
	Potting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.45 to 1.50	g/cm³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 25°C)	78 to 82		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	36.0 to 40.0	°C	ASTM E1356
CLTE - Flow	7.5E-5 to 8.3E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	3.1E+13 to 3.5E+13	ohms·cm	ASTM D257
Dielectric Strength (3.18 mm)	18 to 19	kV/mm	ASTM D149
Dielectric Constant (100 kHz)	4.22 to 4.66		ASTM D2520
Dissipation Factor (100 kHz)	0.023 to 0.025		ASTM D150
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
	Mix Ratio by Volume: 1.0		
Part A	Mix Ratio by Weight: 1.0		
	Mix Ratio by Volume: 1.0		
Part B	Mix Ratio by Weight: 1.0		
Pot Life ¹ (25°C)	60 to 80	min	
Thermoset Mix Viscosity (25°C)	4000 to 7000	cP	ASTM D2393

NOTE

1. 100 Gram Mass

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