

# Sumitomo Epoxy E 9405H-1

Epoxy; Epoxide

Sumitomo Bakelite North America, Inc.

## Message:

E-9504H-1 is glass fiber filled epoxy molding compound designed for encapsulation of delicate electrical components as well as large coils. Excellent thermal shock, moldability, and retention of electrical properties under humid conditions are the outstanding features of this material.

General Information	
Filler / Reinforcement	Glass Fiber
Features	Good Electrical Properties
	Good Moldability
	Good Thermal Shock Resistance
Uses	Electrical/Electronic Applications
Appearance	Black
Forms	Granules
Processing Method	Compression Molding
	Encapsulating
	Resin Transfer Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.70	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow (Compression Molded)	0.50 to 0.70	%	ASTM D955
Water Absorption - 48 hr (50°C)	0.11	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break, Compression Molded)	82.0	MPa	ASTM D638
Flexural Modulus (Compression Molded)	11700	MPa	ASTM D790
Flexural Strength (Break)	123	MPa	ASTM D790
Compressive Strength	220	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Compression Molded)	31	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
CLTE - Flow	3.2E-5	cm/cm/°C	ASTM E831
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength <sup>1</sup>			ASTM D149
-- <sup>2</sup>	13	kV/mm	
-- <sup>3</sup>	13	kV/mm	
Dielectric Constant <sup>4</sup> (1 MHz)	3.70		ASTM D2520

Dissipation Factor <sup>5</sup> (1 MHz)	0.020		ASTM D150
Arc Resistance	190	sec	ASTM D495
NOTE			
1.	Wet, 60 Hz		
2.	Method A (Short-Time)		
3.	Method B (Step-by-Step)		
4.	Wet		
5.	Wet		

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