

# Sumitomo Epoxy E 16521A

Epoxy; Epoxide

Sumitomo Bakelite North America, Inc.

Message:

E-16521A is an encapsulation grade epoxy molding compound suitable for electrical applications such as coils.

General Information			
Uses	Electrical/Electronic Applications		
Appearance	Black		
Forms	Granules		
Processing Method	Compression Molding		
	Encapsulating		
	Resin Transfer Molding		

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.60	g/cm <sup>3</sup>	ASTM D792
Apparent Density	0.80	g/cm <sup>3</sup>	ASTM D1895
Molding Shrinkage - Flow (Compression Molded)	0.50 to 0.70	%	ASTM D955
Water Absorption - 48 hr (50°C)	0.25	%	ASTM D570

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break, Compression Molded)	62.0	MPa	ASTM D638
Flexural Modulus (Compression Molded)	700	MPa	ASTM D790
Flexural Strength (Break)	104	MPa	ASTM D790
Compressive Strength	172	MPa	ASTM D695

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Compression Molded)	19	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Annealed, Compression Molded)	122	°C	ASTM D648
CLTE - Flow	4.0E-5	cm/cm/°C	ASTM E831

Electrical	Nominal Value	Unit	Test Method
Dielectric Strength <sup>1</sup>			ASTM D149
-- <sup>2</sup>	17	kV/mm	
-- <sup>3</sup>	14	kV/mm	
Dielectric Constant <sup>4</sup> (1 MHz)	4.40		ASTM D2520
Dissipation Factor <sup>5</sup> (1 MHz)	0.015		ASTM D150
Arc Resistance	120	sec	ASTM D495

NOTE			
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1.	Dry, 60 Hz
2.	Method A (Short-Time)
3.	Method B (Step-by-Step)
4.	Wet
5.	Wet

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#### Recommended distributors for this material

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