

# Sumitomo Epoxy E 8701A

Epoxy; Epoxide

Sumitomo Bakelite North America, Inc.

Message:

E 8701A is a fiberglass and mineral reinforced epoxy molding compound, with excellent dimensional stability nd good strength at elevated temperatures.

General Information			
Filler / Reinforcement	Glass Fiber		
	Mineral		
Features	Good Dimensional Stability		
	High Temperature Strength		
Appearance	Black		
Forms	Granules		
Processing Method	Compression Molding		
	Resin Transfer Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	2.01	g/cm <sup>3</sup>	ASTM D792
Apparent Density	0.90	g/cm <sup>3</sup>	ASTM D1895
Molding Shrinkage - Flow (Compression Molded)	0.30	%	ASTM D955
Water Absorption - 48 hr (50°C)	0.18	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break, Compression Molded)	68.0	MPa	ASTM D638
Flexural Modulus (Compression Molded)	19000	MPa	ASTM D790
Flexural Strength (Break)	114	MPa	ASTM D790
Compressive Strength	235	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Compression Molded)	20	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Annealed, Compression Molded)	> 282	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength <sup>1</sup>			ASTM D149
-- <sup>2</sup>	19	kV/mm	
-- <sup>3</sup>	16	kV/mm	
Dielectric Constant <sup>4</sup> (1 MHz)	4.60		ASTM D2520

Dissipation Factor <sup>5</sup> (1 MHz)	0.020		ASTM D150
Arc Resistance	180	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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