

Sumitomo Epoxy E 8354A-1

Epoxy; Epoxide

Sumitomo Bakelite North America, Inc.

Message:

E 8354A-1 is a fiberglass and mineral reinforced epoxy molding compound, with excellent dimensional stability, good electrical insulation properties, and good strength.

General Information			
UL YellowCard	E123472-100085724		
Filler / Reinforcement	Glass Fiber		
	Mineral		
Features	Electrically Insulating		
	Good Dimensional Stability		
	Good Strength		
Appearance	Black		
Forms	Granules		
Processing Method	Compression Molding		
	Resin Transfer Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	2.04	g/cm ³	ASTM D792
Apparent Density	0.80	g/cm ³	ASTM D1895
Molding Shrinkage - Flow	0.20 to 0.30	%	ASTM D955
Water Absorption - 48 hr (50°C)	0.20	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	88.0	MPa	ASTM D638
Flexural Modulus	20000	MPa	ASTM D790
Flexural Strength (Break)	149	MPa	ASTM D790
Compressive Strength	260	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	34	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Annealed)	275	°C	ASTM D648
CLTE - Flow	2.2E-5	cm/cm/°C	ASTM E831
RTI Elec	130	°C	UL 746
RTI Imp	130	°C	UL 746
RTI Str	130	°C	UL 746
Electrical	Nominal Value	Unit	Test Method

Dielectric Strength ¹			ASTM D149
-- ²	15	kV/mm	
-- ³	14	kV/mm	
Dielectric Constant ⁴ (1 MHz)	4.40		ASTM D150
Dissipation Factor ⁵ (1 MHz)	0.015		ASTM D150
Arc Resistance	185	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	V-0		UL 94
NOTE			
1.	60 Hz, Wet		
2.	Method A (Short-Time)		
3.	Method B (Step-by-Step)		
4.	Wet		
5.	Wet		

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