



E 8354A-1

Description	E 8354A-1 is a fiberglass and mineral reinforced epoxy molding compound, with excellent dimensional stability, good electrical insulation properties, and good strength.
Available colors	Black
Available molding grades	Compression, Transfer
Form	Granular

EPOXY

Properties		International Units		English Units		Method	
Physical	Specific Gravity	2.04		2.04		ASTM D792	
	Apparent (Powder) density	0.8	g/cm ³	6.7	lb/gal	ASTM D1895	
	Molding shrinkage	0.2-0.3	%	0.002-0.003	in/in	ASTM D955	
	Post shrinkage	-	%	-	in/in	ASTM D955	
	Water absorption		%		%	ASTM D570	
	24 hour	-		-		ASTM D570	
	48 hour	0.20	%	0.20	%	ASTM D570	
Thermal	Temperature of deflection under load		°C at 1.8 MPa		°F at 264 psi	ASTM D648A	
		As Molded	-	-	-	ASTM D648A	
		Post Baked	275	°C at 1.8 MPa	548	°F at 264 psi	ASTM D648A
	Thermal Conductivity	-	W/mK	-	W/mK	ASTM C518	
	UL Temperature Index	130	°C	266	°F	UL 746B	
	UL-flammability					UL 94	
	3.2 mm	-		-		UL 94	
	1,6 mm	V-0		V-0		UL 94	
Mechanical	Coefficient of linear thermal expansion		10 E-6/°C		10 E-6/°F	ASTM E831	
		parallel	22		12		ASTM E831
		perpendicular	-	10 E-6/°C	-	10 E-6/°F	ASTM E831
	Flexural strength	148	MPa	21,500	psi	ASTM D790	
	Flexural modulus	20	GPa	2.9	Mpsi	ASTM D790	
	Tensile strength	90	MPa	13,000	psi	ASTM D638	
	Izod impact strength, notched	34	J/m	0.6	ft lb/in	ASTM D256A	
	Compressive strength	262	MPa	38,000	Psi	ASTM D695	
Electrical	Rockwell Hardness					ASTM D785	
		M Scale	-	-	-		
		E Scale	-	-	-		
	Dielectric Constant, 1 MHz, wet	4.4		4.4		ASTM D150	
	Dissipation Factor, 1 MHz, wet	0.015		0.015		ASTM D150	
	Arc Resistance	185	Seconds	185	Seconds	ASTM D495	
	Dielectric strength, 60 Hz		kV/mm		V/mil	ASTM D149	
	ST, dry/wet	14.8/-		375/-		ASTM D149	
	SS, dry/wet	13.7/-	kV/mm	350/-	V/mil	ASTM D149	
Tracking resistance	-	V	-	V	ASTM D3638 (IEC 112)		

Properties measured on compression molded ASTM specimens. Values are typical, not statistical minimums.

Contact your Sumitomo Bakelite representative for specifications and post baking recommendations.

ST = short time. SS = step-by-step. Wet = immersed in H₂O for 48 hrs. at 50 °C prior to testing.

Certification to ASTM D-5948 requires batch testing. All testing in accordance with ASTM D-5948. ASTM D-5948 supersedes MIL-M-14.

RoHS: E 8354A-1 is in compliance with RoHS2 (2011/65/EU, Restriction of Hazardous Substances).

PFOS: E 8354A-1 does not contain perfluorooctansulfonate (PFOS) according to European Directive 2006/122/EC.

REACH/SVHC : E 8354A-1 does not contain any Substances of Very High Concern (SVHC) as listed on the candidate list published by ECHA..

Revision Date: 7/3/2014. Shelf life 6 months when stored at 40 °F maximum.

The information presented in this document is provided in good faith, but no warranty is given or is to be implied regarding its accuracy or relevance to any particular application. Users must satisfy themselves regarding the suitability and safety of their use of the information and products in the application concerned.

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