



E 2748A

Description	E 2748A is a glass reinforced epoxy molding compound, with good impact strength combined with soft flow for the encapsulation of devices requiring high quality and thermal shock resistance.
Available colors	Black
Available molding grades	Compression, Transfer
Form	Granular

EPOXY

Properties		International Units		English Units		Method
Physical	Specific Gravity	1.76		1.76		ASTM D792
	Apparent (Powder) density	0.7	g/cm ³	5.8	lb/gal	ASTM D1895
	Molding shrinkage	0.4-0.6	%	0.004-0.006	in/in	ASTM D955
	Post shrinkage	-	%	-	in/in	ASTM D955
	Water absorption		%		%	ASTM D570
Thermal	24 hour	-	%	-	%	ASTM D570
	48 hour	0.2	%	0.2	%	ASTM D570
	Temperature of deflection under load		°C at 1.8 MPa		°F at 264 psi	ASTM D648A
	As Molded	-	°C at 1.8 MPa	-	°F at 264 psi	ASTM D648A
	Post Baked	250	°C at 1.8 MPa	523	°F at 264 psi	ASTM D648A
	Thermal Conductivity	-	W/mK	-	W/mK	ASTM C518
	UL Temperature Index	-	°C	-	°F	UL 746B
Mechanical	UL-flammability					UL 94
	3.2 mm	-		-		UL 94
	1,6 mm	-		-		UL 94
	Coefficient of linear thermal expansion		10 E-6/°C		10 E-6/°F	ASTM E831
	parallel	17	10 E-6/°C	9.4	10 E-6/°F	ASTM E831
Electrical	perpendicular	-	10 E-6/°C	-	10 E-6/°F	ASTM E831
	Flexural strength	142	MPa	20,500	psi	ASTM D790
	Flexural modulus	12.4	GPa	1.8	Mpsi	ASTM D790
	Tensile strength	76	MPa	11,000	psi	ASTM D638
	Izod impact strength, notched	31	J/m	0.55	ft lb/in	ASTM D256A
	Compressive strength	210	MPa	30,500	Psi	ASTM D695
	Rockwell Hardness					ASTM D785
Electrical	M Scale	-		-		ASTM D785
	E Scale	-		-		ASTM D785
	Dielectric Constant, 1 MHz, wet	4.5		4.5		ASTM D150
	Dissipation Factor, 1 MHz, wet	0.01		0.01		ASTM D150
	Arc Resistance	180	Seconds	180	Seconds	ASTM D495
	Dielectric strength, ST, dry/wet	14.2/-	kV/mm	360/-	V/mil	ASTM D149
60 Hz	-/-	kV/mm	-/-	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 2748A is in compliance with RoHS2 (2011/65/EU, Restriction of Hazardous Substances).

PFOS: E 2748A does not contain perfluorooctansulfonate (PFOS) according to European Directive 2006/122/EC.

REACH/SVHC : E 2748A 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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