



EPIALL 1914A

Description	Epiall 1914A is a short fiberglass reinforced epoxy molding compound, with excellent dimensional stability, good strength properties and good electrical insulation properties.
Available colors	Black, Green
Available molding grades	Compression, Transfer
Form	Granular

EPOXY

Properties		International Units		English Units		Method	
Physical	Specific Gravity	1.99		1.99		ASTM D792	
	Apparent (Powder) density	0.9	g/cm ³	7.5	lb/gal	ASTM D1895	
	Molding shrinkage	0.2-0.4	%	0.002-0.004	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	553	°F at 264 psi	ASTM D648A	
		As Molded	280				
		Post Baked	>282	°C at 1.8 MPa	>555	°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	7.8	10 E-6/°F	ASTM E831	
		parallel	14				
		perpendicular	33	10 E-6/°C	18	10 E-6/°F	ASTM E831
	Flexural strength	135	MPa	19,500	psi	ASTM D790	
	Flexural modulus	22	GPa	3.2	Mpsi	ASTM D790	
	Tensile strength	90	MPa	13,000	psi	ASTM D638	
	Izod impact strength, notched	37	J/m	0.7	ft lb/in	ASTM D256A	
	Compressive strength	238	MPa	34,500	Psi	ASTM D695	
Electrical	Rockwell Hardness					ASTM D785	
		M Scale	-	-			
		E Scale	-	-			
	Dielectric Constant, 1 MHz, wet	4.5		4.5		ASTM D150	
	Dissipation Factor, 1 MHz, wet	0.02		0.02		ASTM D150	
	Arc Resistance	190	Seconds	190	Seconds	ASTM D495	
	Dielectric strength, ST, dry/wet	-12.6	kV/mm	-1320	V/mil	ASTM D149	
60 Hz	-12.2	kV/mm	-1310	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: EPIALL 1914A is in compliance with RoHS2 (2011/65/EU, Restriction of Hazardous Substances).

PFOS: EPIALL 1914A does not contain perfluorooctansulfonate (PFOS) according to European Directive 2006/122/EC.

REACH/SVHC : EPIALL 1914A 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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