



EPIALL 1908-1

Description	Epiall 1908-1 is a short fiberglass reinforced epoxy molding compound, with excellent dimensional stability, good strength properties and good electrical insulation properties that meets the requirements of ASTM D5948 Type GEI-5.
Available colors	Black, Blue, Green, Gray
Available molding grades	Compression, Transfer
Form	Granular



Properties		International Units		English Units		Method
Physical	Specific Gravity	1.92		1.92		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
Thermal	24 hour	-	%	-	%	ASTM D570
	48 hour	0.20	%	0.20	%	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	>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
Mechanical	UL-flammability					UL 94
	3.2 mm	-		-		UL 94
	1,6 mm	V-0		V-0		UL 94
	Coefficient of linear thermal expansion		10 E-6/°C		10 E-6/°F	ASTM E831
	parallel	37	10 E-6/°C	21	10 E-6/°F	ASTM E831
Electrical	perpendicular	-	10 E-6/°C	-	10 E-6/°F	ASTM E831
	Flexural strength	131	MPa	19,000	psi	ASTM D790
	Flexural modulus	15.1	GPa	2.2	Mpsi	ASTM D790
	Tensile strength	79	MPa	11,500	psi	ASTM D638
	Izod impact strength, notched	37	J/m	0.7	ft lb/in	ASTM D256A
	Compressive strength	241	MPa	35,000	Psi	ASTM D695
Electrical	Rockwell Hardness					ASTM D785
	M Scale	-		-		ASTM D785
	E Scale	-		-		ASTM D785
	Dielectric Constant, 1 MHz, wet	4.1		4.1		ASTM D150
	Dissipation Factor, 1 MHz, wet	0.020		0.020		ASTM D150
	Arc Resistance	180	Seconds	180	Seconds	ASTM D495
	Dielectric strength, ST, dry/wet	-14.3	kV/mm	-1365	V/mil	ASTM D149
60 Hz	-12.8	kV/mm	-1325	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 1908-1 is in compliance with RoHS2 (2011/65/EU, Restriction of Hazardous Substances).

PFOS: EPIALL 1908-1 does not contain perfluorooctansulfonate (PFOS) according to European Directive 2006/122/EC.

REACH/SVHC : EPIALL 1908-1 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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