



## EPIALL 1908M-1

<b>Description</b>	Epiall 1908M-1 is a short glass fiber reinforced epoxy molding compound with excellent dimensional stability, good strength properties, and good electrical insulation properties.
<b>Available colors</b>	Black, Gray
<b>Available molding grades</b>	Compression, Transfer, Injection
<b>Form</b>	Granular

EPOXY

Properties		International Units		English Units		Method	
Physical	Specific Gravity	<b>1.98</b>		<b>1.98</b>		ASTM D792	
	Apparent (Powder) density	<b>0.9</b>	g/cm <sup>3</sup>	<b>7.5</b>	lb/gal	ASTM D1895	
	Molding shrinkage	<b>0.3-0.5</b>	%	<b>0.003-0.005</b>	in/in	ASTM D955	
	Post shrinkage	-	%	-	in/in	ASTM D955	
	Water absorption		%		%	ASTM D570	
	24 hour	-	%	-	%	ASTM D570	
	48 hour	<b>0.15</b>	%	<b>0.15</b>	%	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	<b>&gt;282</b>	°C at 1.8 MPa	<b>&gt;555</b>	°F at 264 psi	ASTM D648A
	Thermal Conductivity	-	W/mK	-	W/mK	ASTM C518	
	UL Temperature Index	-	°C	-	°F	UL 746B	
	UL-flammability		-	-	-	UL 94	
	3.2 mm	-	-	-	UL 94		
	1,6 mm	-	-	-	UL 94		
Mechanical	Coefficient of linear thermal expansion		10 E-6/°C		10 E-6/°F	ASTM E831	
		parallel	<b>27</b>	10 E-6/°C	<b>15</b>	10 E-6/°F	ASTM E831
		perpendicular	-	10 E-6/°C	-	10 E-6/°F	ASTM E831
	Flexural strength	<b>131</b>	MPa	<b>19,000</b>	psi	ASTM D790	
	Flexural modulus	<b>15.2</b>	GPa	<b>2.2</b>	Mpsi	ASTM D790	
	Tensile strength	<b>62</b>	MPa	<b>9,000</b>	psi	ASTM D638	
Izod impact strength, notched	<b>27</b>	J/m	<b>0.5</b>	ft lb/in	ASTM D256A		
Compressive strength	<b>190</b>	MPa	<b>27,500</b>	Psi	ASTM D695		
Rockwell Hardness	M Scale	-	-	-	-	ASTM D785	
	E Scale	-	-	-	-	ASTM D785	
Electrical	Dielectric Constant, 1 MHz, wet	<b>4.5</b>		<b>4.5</b>		ASTM D150	
	Dissipation Factor, 1 MHz, wet	<b>0.02</b>		<b>0.02</b>		ASTM D150	
	Arc Resistance	<b>185</b>	Seconds	<b>185</b>	Seconds	ASTM D495	
	Dielectric strength, ST, dry/wet	<b>-12.8</b>	kV/mm	<b>-325</b>	V/mil	ASTM D149	
	60 Hz, SS, dry/wet	<b>-/-</b>	kV/mm	<b>-/-</b>	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 H<sub>2</sub>O 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 1908M-1 is in compliance with RoHS2 (2011/65/EU, Restriction of Hazardous Substances).

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

REACH/SVHC : EPIALL 1908M-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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