



E 7459A

Description EM 7459A is a medium strength fiberglass reinforced epoxy molding compound, which features enhanced impact strength and toughness

Available colors Green

Available molding grades Compression, Transfer

Form Coarse Flake

EPOXY

Properties		International Units		English Units		Method	
Physical	Specific Gravity	1.73		1.73		ASTM D792	
	Apparent (Powder) density	-	g/cm ³	-	lb/gal	ASTM D1895	
	Molding shrinkage	-	%	-	in/in	ASTM D955	
	Post shrinkage	-	%	-	in/in	ASTM D955	
	Water absorption	24 hour	-	%	-	%	ASTM D570
		48 hour	-	%	-	%	ASTM D570
Thermal	Temperature of deflection under load	As Molded	-	°C at 1.8 MPa	-	°F at 264 psi	ASTM D648A
		Post Baked	-	°C at 1.8 MPa	-	°F at 264 psi	ASTM D648A
	Thermal Conductivity		-	W/mK	-	W/mK	ASTM C518
	UL Temperature Index		-	°C	-	°F	UL 746B
	UL-flammability	3.2 mm	-		-		UL 94
		1,6 mm	-		-		UL 94
Mechanical	Coefficient of linear thermal expansion	parallel	-	10 E-6/°C	-	10 E-6/°F	ASTM E831
		perpendicular	-	10 E-6/°C	-	10 E-6/°F	ASTM E831
	Flexural strength		145	MPa	21,000	psi	ASTM D790
	Flexural modulus		-	GPa	-	Mpsi	ASTM D790
	Tensile strength		114	MPa	16,500	psi	ASTM D638
	Izod impact strength, notched		292	J/m	5.5	ft lb/in	ASTM D256A
Electrical	Compressive strength		-	MPa	-	Psi	ASTM D695
	Rockwell Hardness	M Scale	-		-		ASTM D785
		E Scale	-		-		ASTM D785
Electrical	Dielectric Constant, 1 MHz, wet		-		-		ASTM D150
	Dissipation Factor, 1 MHz, wet		-		-		ASTM D150
	Arc Resistance		-	Seconds	-	Seconds	ASTM D495
	Dielectric strength, 60 Hz	ST, dry/wet	-/-	kV/mm	-/-	V/mil	ASTM D149
		SS, dry/wet	-/-	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 7459A is in compliance with RoHS2 (2011/65/EU, Restriction of Hazardous Substances).

PFOS: E 7459A does not contain perfluorooctansulfonate (PFOS) according to European Directive 2006/122/EC.

REACH/SVHC : E 7459A 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.

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