



E 8353-706R-1

Description	E 8353-706R is a fiberglass and mineral reinforced epoxy molding compound, with excellent dimensional stability and good strength at elevated temperatures.
Available colors	Black
Available molding grades	Compression, Transfer
Form	Granular

EPOXY

Properties		International Units		English Units		Method	
Physical	Specific Gravity	1.98		1.98		ASTM D792	
	Apparent (Powder) density	0.9	g/cm ³	7.5	lb/gal	ASTM D1895	
	Molding shrinkage	0.25	%	0.0025	in/in	ASTM D955	
	Post shrinkage	-	%	-	in/in	ASTM D955	
	Water absorption						
	24 hour	-	%	-	%	ASTM D570	
	48 hour	0.20	%	0.20	%	ASTM D570	
Thermal	Temperature of deflection under load						
		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		-	°C	-	°F	UL 746B
	UL-flammability		-		-		UL 94
	3.2 mm	-		-		UL 94	
	1,6 mm	-		-		UL 94	
Mechanical	Coefficient of linear thermal expansion						
		parallel	22	10 E-6/°C	12	10 E-6/°F	ASTM E831
		perpendicular	27	10 E-6/°C	15	10 E-6/°F	ASTM E831
	Flexural strength		120	MPa	17,500	psi	ASTM D790
	Flexural modulus		18	GPa	2.6	Mpsi	ASTM D790
	Tensile strength		79	MPa	11,500	psi	ASTM D638
	Izod impact strength, notched		22	J/m	0.4	ft lb/in	ASTM D256A
Electrical	Compressive strength		248	MPa	36,000	Psi	ASTM D695
	Rockwell Hardness						
		M Scale	-		-		ASTM D785
		E Scale	-		-		ASTM D785
Electrical	Dielectric Constant, 1 MHz, wet		4.4		4.4		ASTM D150
	Dissipation Factor, 1 MHz, wet		0.019		0.019		ASTM D150
	Arc Resistance		180	Seconds	180	Seconds	ASTM D495
	Dielectric strength, 60 Hz	ST, dry/wet	17.7/17.7	kV/mm	450/450	V/mil	ASTM D149
		SS, dry/wet	15.1/14.3	kV/mm	380/365	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 8353-706R-1 is in compliance with RoHS2 (2011/65/EU, Restriction of Hazardous Substances).

PFOS: E 8353-706R-1 does not contain perfluorooctansulfonate (PFOS) according to European Directive 2006/122/EC.

REACH/SVHC : E 8353-706R-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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