

Sumitomo Epoxy E 8353-706R-1

Epoxy; Epoxide

Sumitomo Bakelite North America, Inc.

Message:

E 8353-706R-1 is a fiberglass and mineral reinforced epoxy molding compound, with excellent dimensional stability and good strength at elevated temperatures.

General Information			
Filler / Reinforcement	Glass Fiber		
	Mineral		
Features	Good Dimensional Stability		
	High Temperature Strength		
Appearance	Black		
Forms	Granules		
Processing Method	Compression Molding		
	Resin Transfer Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.98	g/cm ³	ASTM D792
Apparent Density	0.90	g/cm ³	ASTM D1895
Molding Shrinkage - Flow (Compression Molded)	0.25	%	ASTM D955
Water Absorption - 48 hr (50°C)	0.20	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break, Compression Molded)	78.0	MPa	ASTM D638
Flexural Modulus (Compression Molded)	18000	MPa	ASTM D790
Flexural Strength (Break)	120	MPa	ASTM D790
Compressive Strength	250	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Compression Molded)	22	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed, Compression Molded	> 282	°C	
1.8 MPa, Annealed, Compression Molded	> 282	°C	
CLTE			ASTM E831
Flow	2.2E-5	cm/cm/°C	

Transverse	2.7E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength			
--	18	kV/mm	ASTM D149
--	14	kV/mm	ASTM D149
--	15	kV/mm	ASTM D149
Dielectric Constant ¹ (1 MHz)	4.40		ASTM D2520
Dissipation Factor ² (1 MHz)	0.019		ASTM D150
Arc Resistance	180	sec	ASTM D495
NOTE			
1.	Wet		
2.	Wet		

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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