

Sumitomo Epoxy E 8354-19189-2

Epoxy; Epoxide

Sumitomo Bakelite North America, Inc.

Message:

E 8354-19189-2 is a glass and mineral reinforced epoxy molding compound, formulated for the encapsulation of devices requiring high quality and thermal shock resistance.

General Information	
Filler / Reinforcement	Glass Fiber Mineral
Features	Good Thermal Shock Resistance
Appearance	Black
Forms	Granules
Processing Method	Compression Molding Resin Transfer Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.84	g/cm ³	ASTM D792
Apparent Density	0.80	g/cm ³	ASTM D1895
Molding Shrinkage - Flow	0.30 to 0.35	%	ASTM D955
Water Absorption - 48 hr (50°C)	0.15	%	ASTM D570

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	72.0	MPa	ASTM D638
Flexural Modulus	16500	MPa	ASTM D790
Flexural Strength (Break)	124	MPa	ASTM D790
Compressive Strength	210	MPa	ASTM D695

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	24	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Annealed)	> 282	°C	ASTM D648
CLTE - Flow	1.7E-5	cm/cm/°C	ASTM E831

Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	15	kV/mm	ASTM D149
Dielectric Constant ¹ (1 MHz)	4.80		ASTM D150
Dissipation Factor ² (1 MHz)	0.014		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

