

Sumitomo Epoxy E 2748-9641D

Epoxy; Epoxide

Sumitomo Bakelite North America, Inc.

Message:

E 2748-9641D is a mineral and short fiberglass filled epoxy molding compound formulated for compliance with FDA regulations governing molded articles used in direct contact with food.

General Information	
Filler / Reinforcement	Glass Fiber Mineral
Features	Food Contact Acceptable
Agency Ratings	FDA Food Contact, Unspecified Rating
Appearance	Black
Forms	Granules
Processing Method	Compression Molding Resin Transfer Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.80	g/cm ³	ASTM D792
Apparent Density	0.80	g/cm ³	ASTM D1895
Molding Shrinkage - Flow (Compression Molded)	0.20 to 0.40	%	ASTM D955
Water Absorption - 48 hr (50°C)	0.15	%	ASTM D570

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break, Compression Molded)	71.0	MPa	ASTM D638
Flexural Modulus (Compression Molded)	19000	MPa	ASTM D790
Flexural Strength (Break)	145	MPa	ASTM D790
Compressive Strength	240	MPa	ASTM D695

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Compression Molded)	31	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed, Compression Molded	150	°C	
1.8 MPa, Annealed, Compression Molded	> 280	°C	
CLTE - Flow	2.7E-5	cm/cm/°C	ASTM E831

Electrical	Nominal Value	Unit	Test Method
Dielectric Strength ¹			ASTM D149

-- ²	15	kV/mm	
-- ³	13	kV/mm	
Dielectric Constant ⁴ (1 MHz)	4.00		ASTM D2520
Dissipation Factor ⁵ (1 MHz)	0.020		ASTM D150
Arc Resistance	180	sec	ASTM D495

NOTE

- | | |
|----|-------------------------|
| 1. | Wet, 60 Hz |
| 2. | Method A (Short-Time) |
| 3. | Method B (Step-by-Step) |
| 4. | Wet |
| 5. | Wet |

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