

Sumitomo DAP FS-6 CAF

Diallyl Phthalate

Sumitomo Bakelite North America, Inc.

Message:

FS-6 CAF is a mineral filled, non-flame retardant, diallyl meta-phthalate molding compound, which meets the requirements of ASTM D5948 Type MIG.

General Information	
UL YellowCard	E123472-221389
Filler / Reinforcement	Mineral
Agency Ratings	ASTM D 5948, Type MIG
Appearance	Black
	Blue
Forms	Granules
Processing Method	Compression Molding
	Resin Transfer Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.86	g/cm ³	ASTM D792
Apparent Density	0.80	g/cm ³	ASTM D1895
Molding Shrinkage - Flow (Compression Molded)	0.30 to 0.50	%	ASTM D955
Water Absorption - 48 hr (50°C)	0.50	%	ASTM D570

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Compression Molded)	55.0	MPa	ASTM D638
Flexural Modulus (Compression Molded)	12000	MPa	ASTM D790
Flexural Strength (Compression Molded)	103	MPa	ASTM D790
Compressive Strength	145	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 (1.8 MPa, Unannealed, Compression Molded)	270	°C	ASTM D648
CLTE - Flow	2.5E-5	cm/cm/°C	ASTM E831
RTI Elec	130	°C	UL 746
RTI Imp	130	°C	UL 746
RTI Str	130	°C	UL 746

Electrical	Nominal Value	Unit	Test Method
Dielectric Strength ¹			ASTM D149
-- ²	15	kV/mm	

-- ³	14	kV/mm	
Dielectric Constant ⁴			ASTM D2520
1 kHz	4.30		
1 MHz	4.10		
Dissipation Factor ⁵			ASTM D150
1 kHz	0.020		
1 MHz	0.025		
Arc Resistance	175	sec	ASTM D495
Comparative Tracking Index	> 600	V	IEC 60112, ASTM D3638
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	23	%	ASTM D2863
NOTE			
1.	Wet, 60 Hz		
2.	Method A (Short-Time)		
3.	Method B (Step-by-Step)		
4.	Wet		
5.	Wet		

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