

Sumitomo DAP FS-5

Diallyl Phthalate

Sumitomo Bakelite North America, Inc.

Message:

FS-5 is a short glass fiber reinforced, non-flame retardant, diallyl meta-phthalate molding compound, which meets the requirements of ASTM D5948 Type SIG

General Information	
UL YellowCard	E123472-221388
Filler / Reinforcement	Glass Fiber
Additive	Flame Retardant
Agency Ratings	ASTM D 5948, Type SIG
Appearance	Black
	Blue
	Green
	Red
	White
Forms	Granules
Processing Method	Compression Molding
	Injection Molding
	Resin Transfer Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.91	g/cm ³	ASTM D792
Molding Shrinkage - Flow (Compression Molded)	0.20 to 0.40	%	ASTM D955
Water Absorption - 48 hr (50°C)	0.35	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Compression Molded)	69.0	MPa	ASTM D638
Flexural Modulus (Compression Molded)	11700	MPa	ASTM D790
Flexural Strength (Compression Molded)	110	MPa	ASTM D790
Compressive Strength	131	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Compression Molded)	32	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, Compression Molded)	> 260	°C	ASTM D648
CLTE - Flow	1.8E-5	cm/cm/°C	ASTM E831
Thermal Conductivity	0.36	W/m/K	ASTM C177

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	15	kV/mm	ASTM D149
Dielectric Constant ¹			ASTM D2520
1 kHz	3.90		
1 MHz	3.70		
Dissipation Factor ²			ASTM D150
1 kHz	0.011		
1 MHz	0.014		
Arc Resistance	175	sec	ASTM D495
Comparative Tracking Index	> 600	V	IEC 60112, ASTM D3638
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	29	%	ASTM D2863
NOTE			
1.	Wet		
2.	Wet		

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