

Sumitomo DAP FS-10-VO-200-P

Diallyl Phthalate

Sumitomo Bakelite North America, Inc.

Message:

FS-10-VO-200-P is a short glass fiber reinforced, flame retardant, diallyl meta-phthalate molding compound, which meets the requirements of ASTM D5948 Type SIG-F.

General Information			
UL YellowCard	E123472-221386		
Filler / Reinforcement	Glass Fiber		
Additive	Flame Retardant		
Features	Flame Retardant		
Agency Ratings	ASTM D 5948, Type SIG-F		
Appearance	Black		
	Blue		
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
Apparent Density	0.80	g/cm ³	ASTM D1895
Molding Shrinkage - Flow	0.10 to 0.30	%	ASTM D955
Water Absorption - 48 hr (50°C)	0.25	%	ASTM D570
Flammability			ASTM D229
Burning	50.0	sec	
Ignition	130.0	sec	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	76.0	MPa	ASTM D638
Flexural Modulus	12000	MPa	ASTM D790
Flexural Strength	131	MPa	ASTM D790
Compressive Strength	152	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	32	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	> 260	°C	ASTM D648
CLTE - Flow	1.8E-5	cm/cm/°C	ASTM E831
RTI Elec	200	°C	UL 746

RTI Imp	200	°C	UL 746
RTI Str	200	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength ¹	15	kV/mm	ASTM D149
Dielectric Constant ²			ASTM D150
1 kHz	4.10		
1 MHz	3.90		
Dissipation Factor ³			ASTM D150
1 kHz	0.011		
1 MHz	0.016		
Arc Resistance	175	sec	ASTM D495
Comparative Tracking Index	> 600	V	ASTM D3638
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.50 mm	V-0		
3.20 mm	V-0		
Oxygen Index	50	%	ASTM D2863
NOTE			
1.	60 Hz, Wet		
2.	Wet		
3.	Wet		

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